

INDIVIDUAL OBSERVATIONS
OF
THE LINES WIDENED IN SUN-SPOT SPECTRA

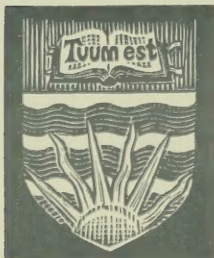
Sir J. N. Lockyer.

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SOLAR PHYSICS COMMITTEE.

SPECTRA OF SUN-SPOTS,
1879—1897.

Deduced from Observations made at the
Solar Physics Observatory,
South Kensington.

LONDON:
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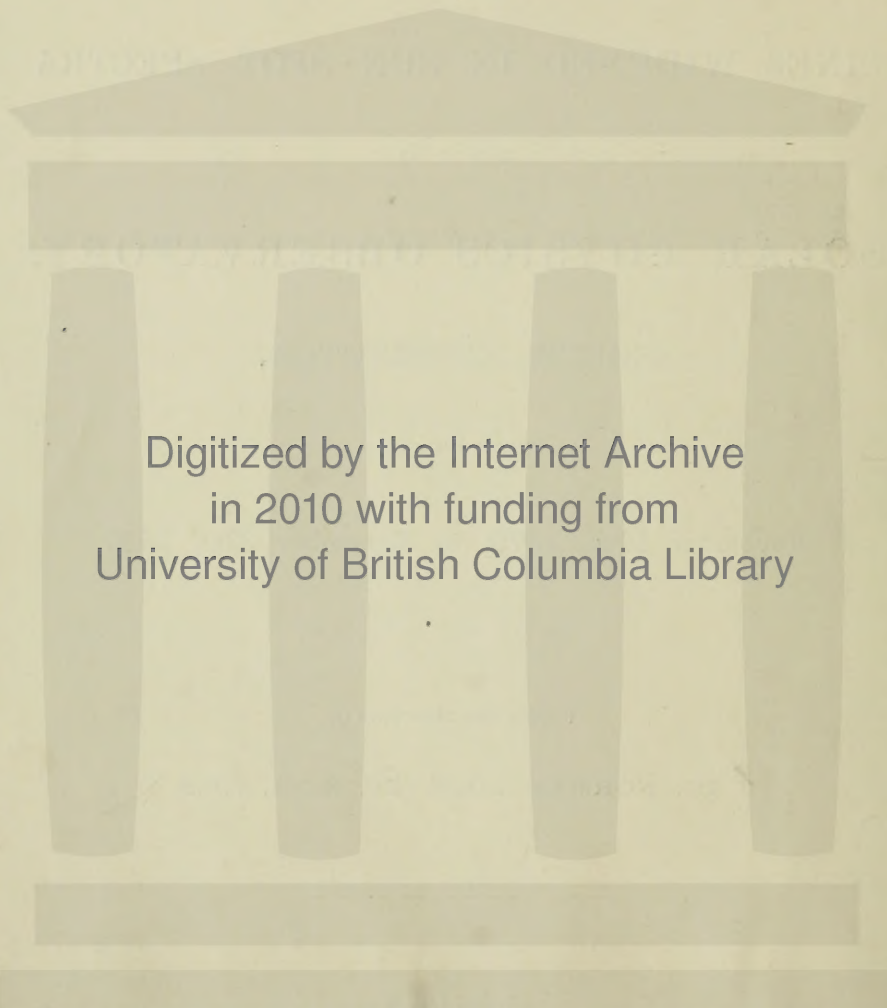
INDIVIDUAL OBSERVATIONS
OF THE
LINES WIDENED IN SUN-SPOT SPECTRA
MADE AT THE
SOLAR PHYSICS OBSERVATORY,
SOUTH KENSINGTON,

DURING THE PERIOD
November 12th, 1879, to December 31st, 1897.

UNDER THE DIRECTION OF
SIR NORMAN LOCKYER, K.C.B., F.R.S.

LONDON:
PRINTED FOR HER MAJESTY'S STATIONERY OFFICE,
BY WYMAN AND SONS, LIMITED, FETTER LANE, E.C.

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INDIVIDUAL OBSERVATIONS

MADE AT

THE SOLAR PHYSICS OBSERVATORY, SOUTH KENSINGTON.

INTRODUCTION.

GENERAL REMARKS.

In the year 1879 I commenced daily routine work on the widened lines in the Spectra of Sun Spots on a restricted basis, so that all the observations might be comparable *inter se*. Since that year the observations have been made continuously, and up to December 15th, 1897 (the date of the last observation published in this volume), the number of spectroscopic observations of spots is 2,091.

As new observations were obtained and sufficient material accumulated for examination, I undertook the provisional discussion of the behaviour of the lines observed every few years, which discussions have been published from time to time in the Proceedings of the Royal Society.*

Now that the number of the individual observations is very considerable, and extends over 18 years, it is important that access can be had to them by those interested in such studies.

Commencing about the time of minimum activity of the solar atmosphere—namely, the year 1879—the observations extend over the following sunspot maxima in 1884 and 1894 and the minimum which occurred in 1890.

In the discussions referred to above it was necessary that some kind of system should be adopted in dealing with these observations. In these I grouped the observations of spots in sets of one hundred in the order that they were made. For many reasons this was a convenient way of dealing with such material, but the great disadvantage when considering a large number of observations lies in the fact that the observations of, say, 100 spots near the time of minimum, would extend sometimes over a period of two years, while another 100 near the time of maximum would only cover as many months.

* Proc. Roy. Soc., Vol. 40, p. 347. 1886.
Vol. 42, p. 37. 1887.
Vol. 46, p. 385. 1889.
Vol. 57, p. 199. 1894.

Now that a large number of observations has accumulated, and more is known about the behaviour of widened lines in the spectra of spots, I have thought it expedient that an alteration in the system of discussion should be made. I have therefore grouped the observations in three-monthly or quarter-yearly series. In this way, in addition to the great advantage of readily determining the yearly value of the frequency of appearance of individual widened lines in sunspot spectra for comparison with the yearly values obtained for the sun spot frequency, a more minute examination of the observations at the times near a maximum will be made possible; and lastly, when spot spectra observations are few, the three-monthly values may be combined to form yearly values.

METHOD OF OBSERVATION.

The method of observation has consisted in allowing an image of the spot under examination to fall on the slit of a spectroscope, and observing the lines which become most widened (not the widest) in the region of the spot. When the observing conditions are very satisfactory the third order spectrum is examined, but should there be haze or an unsteady image then the spot is observed in the second order of the grating. In this work the whole spectrum is not included in the programme of observation, but only that portion lying between F and D.

As the observer determined which were the most widened lines, he referred to an Ångström's or Rowland's map to determine the wave-length of each line, and these wave-lengths were entered in the observation book.

Up to the end of 1893 the wave-lengths of Ångström were employed, but after this, Rowland's new map and wave-lengths were used. It is unnecessary to add that as a precaution, while the change was being made, both systems were in use for some time, so that the lines observed on Ångström's map could be clearly identified on that of Rowland. In these published observations the wave-lengths of the widened lines are given on Ångström's scale up to the end of 1893. After that date Rowland's new wave-lengths have been adopted, the wave-lengths on his map (second series) being given up to the end of 1893, and those from his new "Table of Solar Spectrum Wave-lengths" after 1895.

In making the observations the observer had not to record all the lines widened in a spot spectrum, *but only the twelve most widened lines* in the region mentioned, namely, the six most widened lines in the region F—b, and the six most widened in the region b—D.

It has become customary, however, after the first twelve widened lines have been observed, to note a few additional widened lines which have attracted attention; these have been inserted in the present publication.

INSTRUMENTS EMPLOYED.

The telescope in use at the commencement of the observations in 1879 was an equatorial of 6-inches aperture, by Messrs. Cooke of York, belonging to the Indian Government. This instrument remained in use to the end of the year 1884, when it was returned to the India Office to be erected at the Elphinstone College, Bombay.

Since then, and up to the present time, a 6-inch equatorial, giving an image of the sun 0·7 inches in diameter, by Messrs. Troughton and Simms, lent to the Science and Art Department by the Astronomer Royal, has been in regular use.

On a few occasions my 6-inch Cooke equatorial and also the 10-inch Cooke equatorial have been employed for making the observations.

For the first few years the spectroscope with which the observations were made was a solar spectroscope by Hilger, the property of the India Office, having a dispersive power of 18 dense flint glass prisms of 60°.

About the year 1882 my grating spectroscope was adapted for use in connection with the Indian telescope for spot observations. The grating was one made by Rutherfurd, having about 17,280 lines to the inch.

Subsequently the grating was replaced by one of Rowland's plane gratings with 14,438 lines to the inch, and this is in use at the present time, the only alteration being, that a light aluminium mounting has been substituted for the heavier brass one, and that the grating has been repolished.

EXPLANATION OF THE TABLES.

In the following tables, in which these original observations are printed, the individual observations are given in order from left to right. In the first three horizontal spaces above the list of widened lines for each spot are given:—First, the Greenwich number of the spot in question; second, the year, month and day of the month, and third, the two regions of the spectrum under investigation, namely F to b, b to D. Under these the latitude of the spot in question is given. These have been taken from the Solar Physics Committee's publication "Position and Areas of Sun Spots and Faculæ," deduced from photographs taken at Greenwich, Dehra Dûn and Mauritius. In the two columns containing the wave-lengths of the lines widened in the spot, in addition to the first six most widened lines, others in some cases are given; these have been inserted for the reason previously stated.

When these observations were commenced it was the rule to make a note of the widened lines in the order of their widening, *i.e.*, the most widened lines coming first on the list, &c.

In consequence of the great number of different observers who have been employed during this period of 18 years in obtaining this continuous record, this rule has not always been strictly followed. In some cases no sooner had the observer learnt the method of observations, and begun to take his share in the daily routine work, than he received and accepted an appointment in another branch of the Department, or in another institution; such changes necessitated the continual training of new observers. In later years the work has been carried on continuously with fewer such changes and with better equipped instruments, so that greater weight should be attached to the more recent observations.

The list of widened lines in this volume is printed throughout *in order of wave-length*, but, where it has been possible to discriminate the observations recorded in the order of widening, this order is denoted by "(1)," indicating that the line is most widened, and "(6)" that the line is the sixth in the order of

widening. The letter "d" or "t" placed after the wave length of a line indicates that the line is a close doublet or triplet respectively.

In some of the early observations the lists of widened lines for some of the spots are the result of the observations of two assistants. This was due to the fact that in consequence of the smallness of the staff the aid of teachers in training was utilised, and they helped in making the observations whenever they were available. The work was therefore done in duplicate by an old and the new observer to preserve continuity.

I have thought it advisable therefore, not to attempt to give a list of the observers in chronological order, but to confine myself simply to an alphabetical list containing the name of every observer who has at different times aided in making these observations.

This list is as follows :—

Messrs. F. E. BAXANDALL.	Messrs. R. A. GREGORY.	Messrs. G. J. ROGERS.
C. P. BUTLER.	N. A. LAWRENCE.	W. SHACKLETON.
E. A. COPPEN.	W. J. S. LOCKYER.	J. SPENCER.
J. D. CRABTREE.	— NETTLEFOLD.	G. STEPHENSON.
E. E. FOURNIER.	B. NORTH.	A. TAYLOR.
A. FOWLER.	G. L. OVERTON.	— THOMAS.
E. J. FRISWELL.	J. PORTER.	J. WATSON.
F. GREENING.		J. WOODS.

A few among the above have for several consecutive years made nearly a continuous series of observations. Thus :—

1879—1885 - Messrs. LAWRENCE.	1888—1893 - Messrs. BAXANDALL.
GREENING.	GREGORY.
1885—1888 - TAYLOR.	1893—1897 - BAXANDALL.
FOWLER.	SHACKLETON.

To avoid any misunderstanding, it may be again stated that the wave-lengths of the widened lines up to December, 1893, are taken from Ångström's maps, while those from that date to December, 1895, are given in Rowland's wave-lengths, determined from his map (second series), and those from January 22nd, 1896, in Rowland's new scale taken from his "Table of Solar Spectrum Wave-lengths."

The spectrum of one spot has unfortunately been omitted on page 131, but this will be found inserted on the page of errata at the beginning of the volume.

NORMAN LOCKYER.

Solar Physics Observatory,
October 22nd, 1900.

The wave-lengths of the widened lines recorded between November 12th, 1879,
and December 26th, 1893, are given on Ångström's scale.

widening. The letter "d" or "t" placed after the wave length of a line indicates that the line is a close doublet or triplet respectively.

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J. D. CRABTREE.	NETTLEFOLD.	G. STEPHENSON.
E. E. FOURNIER.	B. NORTH.	A. TAYLOR.
A. FOWLER.	G. L. OVERTON.	THOMAS.
E. J. FRISWELL.	J. PORTER.	J. WATSON.
F. GREENING.		J. WOODS.

A few among the above have for several consecutive years made nearly a continuous series of observations. Thus :—

1879- 1885 -	Messrs. LAWRENCE.	1888- 1893 -	Messrs. BAXANDALL.
	GREENING.		GREGORY.
1885- 1888 -	TAYLOR.	1893- 1897 -	BAXANDALL.
	FOWLER.		SHACKLETON.

To avoid any misunderstanding, it may be again stated that the wave-lengths of the widened lines up to December, 1893, are taken from Ångström's maps, while those from that date to December, 1895, are given in Rowland's wave-lengths, determined from his map (second series), and those from January 22nd, 1896, in Rowland's new scale taken from his "Table of Solar Spectrum Wave-lengths."

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Solar Physics Observatory,

October 22nd, 1900.

The wave-lengths of the widened lines recorded between November 12th, 1879,
and December 26th, 1893, are given on Ångström's scale.

ERRATA.

After Spot No. 4296, page 131, insert—

Greenwich No. 4295.	
1896. February 22nd.	
P. — b.	b. — D
5134.697	5671.071
5138.518	5672.047
5147.652	5700.402
5149.267	5727.873
5150.363	5731.437
5156.823	5737.288
5045.582	5703.797
5062.285	5743.645
	5460.721
	5460.572
	5426.474
	5219.875
Lat. 15°1	

Greenwich No. 295b.		Greenwich No. 295b.		Greenwich No. 295b.		Greenwich No. 298.		Greenwich No. 296.	
1879. November 12.		1879. November 13.		1879. November 14.		1879. November 27.		1879. November 28.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
4918.0	5207.6	(6) 4918.0	(4) 5264.5	(1) 4918.0	(2) 5264.5	(1) 4918.0	(6) 5265.3	(1) 4918.0	(6) 5265.3
4919.8	5209.5	(5) 4919.8	(5) 5265.8	(2) 4919.8	(3) 5265.8	(2) 4919.8	(5) 5207.6	(2) 4919.8	(6) 5207.6
5004.9	5268.5	(4) 5071.9	(2) 5268.5	(6) 5041.2	(4) 5268.5	(4) 5004.9	(4) 5264.5	(6) 5068.1	(1) 5264.5
5005.2	5269.5	(3) 5074.0	(1) 5269.5	(5) 5049.3	(5) 5269.5	(5) 5005.2	(3) 5265.8	(5) 5074.0	(2) 5265.8
5006.5	5272.5	(2) 5075.8	(5) 5323.4	(4) 5051.0	(6) 5339.2	(3) 5006.5	(1) 5268.5	(4) 5077.9	(3) 5268.5
5098.2	5370.5	(1) 5138.5	(6) 5327.7	(3) 5138.5	(1) 5370.5	(6) 5011.5	(2) 5269.5	(3) 5078.8	(4) 5269.5
			5327.7		5040.2 5340.2		5203.7		
Lat. - 22°		Lat. - 22°		Lat. - 21°		Lat. - 21°		Lat. - 13.4°	
Greenwich No. 301.		Greenwich No. 301.		Greenwich No. 305.		Greenwich No. 306.		Greenwich No. 305.	
1880. January 3.		1880. January 12.		1880. January 19.		1880. January 19.		1880. January 20.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
(1) 4918.0	(6) 5191.7	(1) 4918.0	(4) 5190.8	(1) 4918.0	(5) 5188.2	(1) 4918.0	(5) 5190.8	(6) 4888.0	(6) 5201.5
(2) 4919.8	(5) 5203.7	(2) 4919.8	(3) 5191.7	(2) 4919.8	(3) 5190.8	(2) 4919.8	(6) 5191.7	(5) 4888.0	(5) 5203.7
(6) 5077.9	(4) 5205.3	(5) 5077.9	(6) 5205.3	(3) 4956.7	(4) 5191.7	(6) 4984.8	(4) 5264.5	(4) 4890.0	(4) 5205.3
(5) 5078.8	(3) 5207.6	(6) 5078.8	(5) 5207.6	(4) 4981.8 d	(6) 5207.6	(3) 5004.9	(3) 5265.8	(3) 4899.6	(3) 5207.6
(3) 5136.8	(2) 5268.5	(3) 5136.8	(2) 5268.5	(5) 4983.5 d	(2) 5268.5	(4) 5005.2	(2) 5268.5	(1) 4918.0	(1) 5268.5
(4) 5138.5	(1) 5269.5	(4) 5138.5	(1) 5269.5	(6) 4984.8 d	(1) 5269.5	(5) 5006.5	(1) 5269.5	(2) 4919.8	(2) 5269.5
	5190.8		5203.7						
Lat. - 29.2°		Lat. - 19.1°		Lat. - 13°		Lat. - 25°		Lat. - 25°	
Greenwich No. 305.		Greenwich No. 309.		Greenwich No. 308.		Greenwich No. 308.		Greenwich No. 312.	
1880. January 20.		1880. January 30.		1880. January 30.		1880. January 30.		1880. February 25.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
(4) 4890.0	(3) 5190.8	(1) 4918.0	(6) 5205.3	(2) 4918.0	(2) 5264.5	(2) 4918.0	(2) 5264.5	(6) 4870.2	(6) 5191.7
(3) 4890.6	(4) 5191.7	(2) 4919.8	(5) 5207.6	(1) 4919.8	(4) 5265.8	(1) 4919.8	(4) 5265.8	(5) 4871.2	(1) 5209.5
(2) 4918.0	(5) 5194.0	(3) 5004.9	(4) 5264.5	(3) 5040.2	(1) 5268.5	(3) 5040.2	(1) 5268.5	(2) 4918.0	(5) 5264.5
(1) 4919.8	(1) 5268.5	(4) 5005.2	(3) 5265.8	(4) 5041.2	(3) 5269.5	(4) 5041.2	(3) 5269.5	(1) 4919.8	(4) 5265.8
(5) 5077.9	(2) 5269.5	(5) 5006.5	(1) 5268.5	(5) 5049.3	(5) 5403.1	(5) 5049.3	(5) 5403.1	(4) 5006.5	(3) 5268.5
(6) 5098.2	(6) 5275.9	(6) 5077.9	(2) 5269.5	(6) 5051.0	(6) 5404.8	(6) 5051.0	(6) 5404.8	(3) 5098.2	(2) 5269.5
		5075.8							
Lat. - 13°		Lat. - 15.5°		Lat. - 19.2°		Lat. - 19.3°		Lat. - 29.2°	

Greenwich No. 312.		Greenwich No. 312.		Greenwich No. 312.		Greenwich No. 312.		Greenwich No. 314.	
1880. February 26.		1880. February 27.		1880. March 1.		1880. March 4.		1880. March 6.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
(6) 4877.5	(2) 5192.2	(6) 4870.2	(5) 5209.5	4870.2	Cloudy.	4870.2	5190.8	(6) 4981.9	(3) 5190.8
(2) 4918.0	(1) 5209.5	(5) 4871.2	(6) 5263.4	4871.2		4871.2	5191.7	(5) 4982.5	(4) 5191.7
(1) 4919.8	(6) 5264.5	(4) 4890.0	(4) 5264.5	4890.0		4890.0	5203.7	(4) 4983.3	(6) 5264.5
(3) 5112.1	(5) 5265.8	(3) 4890.6	(3) 5265.8	4890.6		4890.6	5205.3	(3) 4984.8	(5) 5265.8
(4) 5116.0	(3) 5268.5	(2) 4918.0	(2) 5268.5	4918.0		4918.0	5207.6	(2) 5077.9	(2) 5268.5
(5) 5118.0	(4) 5269.5	(1) 4919.8	(1) 5269.5	4919.8		4919.8	5209.5	(1) 5078.8	(1) 5269.5
			5262.5					4981.0	
Lat. - 28.7°		Lat. - 28.7°		Lat. - 28.7°		Lat. - 28.2		Lat. + 19.5	
Greenwich No. 314.		Greenwich No. 314.		Greenwich No. 314.		Greenwich No. 315.		Greenwich No. 316.	
1880. March 10.		1880. March 11.		1880. March 13.		1880. March 13.		1880. March 13.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
4907.0	5188.2	4918.0	5205.3	(2) 4918.0	(6) 5203.7	(1) 4918.0	(6) 5191.7	4918.0	5188.2
4918.0	5190.8	4919.8	5207.6	(1) 4919.8	(4) 5205.3	(2) 4919.8	(5) 5207.6	4919.8	5226.0
4919.8	5191.7	5004.9	5268.5	(4) 5004.9	(3) 5207.6	(5) 5004.9	(4) 5226.0	5004.9	5227.3
5004.9	5201.5	5005.2	5269.5	(3) 5005.2	(5) 5209.5	(6) 5005.2	(3) 5232.0	5005.2	5232.0
5005.2	5203.7	5006.5	5277.3	(5) 5006.5	(2) 5268.5	(3) 5006.3	(2) 5268.5	5006.5	5268.5
5006.5	5205.3	5077.9	5327.7	(6) 5006.3	(1) 5269.5	(4) 5008.2	(1) 5269.5	5006.3	5269.5
	5207.6 5209.5	5078.8		5098.2		5006.5		5098.2	
Lat. - 19.6		Lat. + 20.2		Lat. + 29.4°		Lat. - 20.4		Lat. - 18.0°	
Greenwich No. 315.		Greenwich No. 316.		Greenwich No. 315.		Greenwich No. 316.		Greenwich No. 315.	
1880. March 15.		1880. March 15.		1880. March 16.		1880. March 16.		1880. March 17.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5004.9	5190.8	4918.0	5205.3	(2) 4918.0	(6) 5207.6	4918.0	5194.0	4918.0	5203.7
5005.2	5191.7	4919.8	5207.6	(1) 4919.8	(1) 5209.5	4919.8	5207.6	4919.8	5205.3
5006.5	5205.3	5004.9	5226.0	(3) 5004.9	(5) 5226.0	5077.9	5226.0	5004.9	5207.6
5006.3	5207.6	5005.2	5232.0	(4) 5005.2	(4) 5232.0	5078.8	5232.0	5005.2	5226.0
5008.2	5268.5	5006.5	5268.5	(5) 5006.5	(3) 5268.5	5006.3	5268.5	5006.5	5232.0
5196.8	5269.5	5006.3	5269.5	(6) 5006.3	(2) 5269.5	5008.2	5269.5	5006.3	5268.5
5198.5		5098.2		5098.2				5098.2	5269.5
Lat. - 21		Lat. - 17		Lat. - 19.8		Lat. - 17		Lat. - 19.8	

Greenwich No. 316.		Greenwich No. 315.		Greenwich No. 316.		Greenwich No. 316.		Greenwich No. 316.	
1880. March 17.		1880. March 18.		1880. March 18.		1880. March 19.		1880. March 20.	
F — b	b — D	F — b	b — D	F — b	b — D	F — b	b — D	F — b	b — D
(2) 4918.0	(6) 5188.2	4918.0	5203.7	4918.0	5203.7	4918.0	5190.8	4918.0	5188.2
(1) 4919.8	(5) 5190.8	4919.8	5205.3	4919.8	5205.3	4919.8	5191.7	4919.8	5190.8
(3) 5004.9	(4) 5191.7	5077.9	5207.6	5004.9	5207.6	5004.9	5203.7	5004.9	5191.7
(4) 5005.2	(3) 5207.6	5078.8	5208.5	5005.2	5204.5	5005.2	5205.3	5005.2	5207.6
(5) 5006.5	(2) 5268.5	5096.3	5269.5	5006.5	5265.8	5006.5	5207.6	5006.5	5268.5
(6) 5035.8	(1) 5269.5	5098.2	5272.5	5077.9	5268.5	5040.2	5268.5	5049.3	5269.5
5034.8			5327.3	5078.8	5269.5	5041.2	5269.5	5051.0	
5035.2			5327.7						
Lat. - 16.8		Lat. + 20.4°		Lat. - 16.1°		Lat. - 16.1°		Lat. - 16°	
Greenwich No. 317.		Greenwich No. 317.		Greenwich No. 318.		Greenwich No. 318.		Greenwich No. 317.	
1880. April 1.		1880. April 3.		1880. April 3.		1880. April 3.		1880. April 5.	
F — b	b — D	F — b	b — D	F — b	b — D	F — b	b — D	F — b	b — D
4918.0	5203.7	4918.0	5203.7	5004.9		4918.0		(2) 4918.0	(5) 5207.6
4919.8	5205.3	4919.8	5205.3	5005.2		4919.8		(1) 4919.8	(4) 5226.0
5004.9	5207.6	5077.9	5207.6	5006.5		5004.9		(5) 5004.9	(3) 5232.0
5005.2	5209.5	5078.8	5209.5	5077.9	Cloudy	5005.2	Cloudy	(6) 5005.2	(2) 5268.5
5006.5	5268.5	5098.2	5268.5	5078.8		5006.5		(3) 5138.5	(1) 5269.5
5096.3	5269.5	5138.5	5269.5	5096.3		5136.8		(4) 5142.2	(6) 5327.3
5098.2				5098.2		5138.5		5006.5	5327.7
Lat. + 17.9°		Lat. + 18°		Lat. + 16.2°		Lat. + 17.6°		Lat. + 18.2°	
Greenwich No. 317.		Greenwich No. 317.		Greenwich No. 319.		Greenwich No. 320.		Greenwich No. 320.	
1880. April 6.		1880. April 7.		1880. April 13.		1880. April 26.		1880. April 27.	
F — b	b — D	F — b	b — D	F — b	b — D	F — b	b — D	F — b	b — D
(2) 4918.0		(2) 4918.0	(4) 5264.5	(2) 4918.0		(6) 4870.2	(6) 5226.0	(2) 4918.0	(5) 5207.6
(1) 4919.8		(1) 4919.8	(3) 5265.8	(1) 4919.8		(5) 4871.2	(5) 5232.0	(1) 4919.8	(6) 5226.0
(6) 5040.2		(6) 5096.3	(2) 5268.5	(5) 5004.9		(2) 4918.0	(2) 5268.5	(6) 5005.2	(2) 5268.5
(5) 5041.2		(5) 5136.8	(1) 5269.5	(6) 5005.2	Cloudy	(1) 4919.8	(1) 5269.5	(5) 5006.5	(1) 5269.5
(3) 5138.5		(4) 5138.5	(5) 5327.3	(3) 5040.2		(4) 5138.5	(4) 5327.3	(4) 5138.5	(4) 5327.3
(4) 5142.2		(3) 5142.2	(6) 5327.7	(4) 5041.2		(3) 5142.2	(3) 5327.7	(3) 5142.2	(3) 5327.7
		5098.2		5006.5			5207.6	5004.9	5232.0
Lat. + 20.3°		Lat. + 18.9°		Lat. - 18		Lat. + 20		Lat. - 18.3	

Greenwich No. 320.		Greenwich No. 320.		Greenwich No. 320.		Greenwich No. 321.		Greenwich No. 321.	
1880. April 29.		1880. April 30.		1880. May 1.		1880. May 3.		1880. May 6.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
(1) 4870.2	(5) 5207.6	(2) 4918.0	(4) 5190.8	(2) 4918.0	(5) 5188.2	(2) 4918.0	(6) 5207.6	(6) 4870.2	(3) 5207.6
(3) 4871.2	(5) 5226.0	(1) 4919.8	(3) 5191.7	(1) 4919.8	(4) 5199.8	(1) 4919.8	(5) 5268.5	(5) 4871.2	(5) 5268.5
(6) 4890.0	(5) 5232.0	(3) 5004.9	(5) 5207.6	(3) 5004.9	(3) 5191.7	(4) 5004.9	(1) 5269.5	(4) 4890.0	(4) 5269.5
(5) 4890.0	(5) 5268.5	(4) 5005.2	(6) 5226.0	(4) 5005.2	(6) 5207.6	(3) 5005.2	(3) 5323.4	(3) 4890.0	(6) 5323.4
(2) 4918.0	(1) 5269.5	(5) 5006.5	(2) 5268.5	(5) 5006.5	(2) 5268.5	(5) 5006.5	(4) 5327.3	(2) 4918.0	(2) 5327.3
(1) 4919.8	(6) 5327.7	(6) 5077.9	(1) 5269.5	(6) 5035.8	(1) 5269.5	(6) 5138.5	(5) 5327.7	(1) 4919.8	(1) 5327.7
	5207.3	5078.8		5034.8	5035.2	5142.2			5203.7
									5205.3
Lat. + 22.6		Lat. + 22.7		Lat. + 22.8		Lat. + 26.5		Lat. + 25.7	
Greenwich No. 321.		Greenwich No. 321.		Greenwich No. 321.		Greenwich No. 325.		Greenwich No. 326.	
1880. May 7.		1880. May 8.		1880. May 13.		1880. May 21.		1880. May 25.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
(2) 4918.0	(5) 5203.7	(2) 4918.0	(3) 5207.6	4918.0	5203.7	4918.0	5201.5	(2) 4918.0	(6) 5201.5
(1) 4919.8	(1) 5205.3	(1) 4919.8	(5) 5269.5	4919.8	5205.3	4919.8	5203.7	(1) 4919.8	(5) 5203.7
(4) 5112.1	(3) 5207.6	(3) 5112.1	(4) 5231.5	5004.9	5207.6	5040.2	5205.3	(6) 5004.9	(4) 5205.3
(4) 5004.9	(6) 5264.5	(4) 5112.0	(6) 5265.8	5005.2	5264.5	5041.2	5207.6	(3) 5006.5	(3) 5207.6
(5) 5111.8	(2) 5268.5	(5) 5118.0	(2) 5268.5	5066.5	5268.5	5077.9	5268.5	(5) 5040.2	(2) 5268.5
(6) 5021.0	(1) 5269.5	(6) 5121.9	(1) 5269.5	5040.2	5269.5	5078.8	5269.5	(4) 5041.2	(1) 5269.5
	5265.8			5041.2					5005.2
Lat. + 25.8		Lat. + 25.6		Lat. + 26.0		Lat. + 24.6		Lat. + 14.1	
Greenwich No. 326.		Greenwich No. 326.		Greenwich No. 326.		Greenwich No. 328.		Greenwich No. 331.	
1880. May 26.		1880. May 28.		1880. May 29.		1880. June 8.		1880. June 18.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
(6) 4870.2	(6) 5201.5	(2) 4918.0	(6) 5205.3	4918.0	5203.7	(2) 4918.0	(5) 5268.5	Cloudy.	(6) 5762
(5) 4871.2	(5) 5203.7	(1) 4919.8	(5) 5207.6	4919.8	5205.3	(1) 4919.8	(4) 5269.5		(5) 5790
(1) 4890.0	(4) 5203.4	(4) 5004.9	(2) 5268.5	5004.9	5207.6	(3) 5004.9	(3) 5323.5		(4) 5806
(3) 4890.6	(3) 5207.6	(5) 5005.2	(1) 5269.5	5005.2	5264.5	(4) 5005.2	(2) 5327.3		(1) 5833
(2) 4918.0	(2) 5268.5	(3) 5006.5	(4) 5327.3	5006.5	5265.8	(5) 5006.5	(1) 5327.7		(2) 5857
(1) 4919.8	(1) 5267.5	(6) 5041.2	(3) 5327.7	5040.2	5268.5	(6) 5040.2	(6) 5339.2		(3) 5861.5
	5330.2	5030.2	5203.7	5041.2	5269.5	5041.2	5340.2		
	541.2								
Lat. + 13.7		Lat. + 14.4		Lat. + 14.2		Lat. + 14.6		Lat. + 25.5	

Greenwich No. 331.		Greenwich No. 331.		Greenwich No. 332.		Greenwich No. 332.		Greenwich No. 332.	
1880. June 19.		1880. June 21.		1880. June 21.		1880. June 23.		1880. June 24.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
(2) 5226		(4) 4918.0	(3) 5166.8	(1) 4918.0	(6) 5445	5226		(3) 4877.5	(3) 5445
(3) 5232		(5) 4919.8	(2) 5172.1	(2) 4919.8	(4) 5585.5	5232		(1) 4918.0	(4) 5454
(4) 5268.9		(1) 5040.1	(1) 5183.0	(3) 4956.5	(3) 5593.5	5268		(2) 4919.8	(5) 5462
Cloudy.		(2) 5049	(4) 5226	(4) 5136.5	(2) 5597.0	5269	Cloudy.	(6) 5050.0	(6) 5527.5
(5) 5327		(3) 5051	(5) 5232	(5) 5138.5	(1) 5601.5	5327		(5) 5098.9	(2) 5601.5
(6) 5423			(6) 5268.5		(5) 5614	5327.5		(4) 5107	(1) 5614
(1) 5815									
					5226.0				
Lat. + 25.5°		Lat. + 25.5°		Lat. - 24.4°		Lat. - 24.6°		Lat. - 24.6°	
Greenwich No. 332.		Greenwich No. 332.		Greenwich No. 332.		Greenwich No. 333.		Greenwich No. 333.	
1880. June 25.		1880. June 25.		1880. June 28.		1880. June 29.		1880. June 30.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
(4) 4871	(1) 5323.4	(6) 4860.0 F	(1) 5428.5	(6) 4918.0	(1) 5226.0	(1) 4918.0	(1) 5226.0	(4) 4918.0	(1) 5226.0
(5) 4890	(2) 5327.3	(4) 4871	(2) 5444.5	(2) 4956.7	(2) 5232.0	(2) 4919.8	(2) 5232	(3) 4919.8	(3) 5370.5
(2) 4918.0	(3) 5327.7	(5) 4890	(3) 5445.5	(1) 5040.2	(3) 5323.4	(3) 4956.7	(3) 5327	(2) 4956.7	(4) 5403.0
(3) 4919.8	(4) 5444.5	(1) 4956.5	(4) 5454.5	(3) 5041.0	(4) 5614.5	(4) 4890.0	(6) 5445.5	(5) 5040	(5) 5405.0
(1) 4950.5	(5) 5445.5	(2) 5040	(5) 5462.5	(4) 5049.5	(5) 5316.0	(5) 4870.5	(4) 5527	(6) 5041	(2) 5454.7
(6) 5040.2	(6) 5454.5	(3) 5050	(6) 5476	(5) 5051.0	(6) 5428.5	(6) 4871.0	(5) 5614.5	(1) 5107.0	(6) 5500.3
5041.2	5462								
5049.4	5592								
5051.0									
Lat. - 24.4°		Lat. - 17.4°		Lat. - 23°		Lat. - 37°		Lat. - 38.5°	
Greenwich No. 338.		Greenwich No. 338.		Greenwich No. 338.		Greenwich No. 338.		Greenwich No. 341.	
1880. July 21.		1880. July 22.		1880. July 23.		1880. July 27.		1880. July 29.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
(3) 4918.0	(6) 5226.0	(6) 4870.3	(1) 5323.5	(3) 4918.0	(1) 5369.0	(5) 4918.0	(6) 5205.3	(2) 4918.0	(2) 5205.3
(2) 4919.8	(4) 5264.5	(5) 4871.2	(4) 5269.5	(2) 4919.8	(2) 5370.5	(4) 4919.8	(5) 5207.0	(1) 4919.8	(1) 5207.6
(1) 4956.7	(5) 5265.5	(4) 4890.0	(2) 5327.3	(1) 4956.7	(3) 5269.5	(3) 4956.7	(4) 5263.4	(3) 5001.9	(3) 5303.9
(5) 5004.9	(3) 5267.2	(3) 4890.8	(3) 5327.7	(5) 5004.9	(4) 5268.5	(6) 5040.2	(3) 5264.5	(4) 5005.2	(4) 5370.5
(6) 5005.2	(1) 5268.3	(2) 4918.0	(5) 5268.5	(6) 5005.2	(5) 5264.5	(1) 5077.9	(2) 5268.5	(5) 5006.5	(5) 5403.1
(4) 5006.5	(2) 5269.5	(1) 4919.8	(6) 5226.0	(4) 5006.5	(6) 5265.5	(2) 5078.8	(1) 5269.5	(6) 5077.9	(6) 5404.8
				4890.0		5041.2		5098.2	
				4890.6					
Lat. + 22°		Lat. + 22°		Lat. + 22°		Lat. + 23°		Lat. - 13.0°	

Greenwich No. 342.		Greenwich No. 343.		Greenwich No. 342.		Greenwich No. 343.		Greenwich No. 344.	
1880. August 9.		1880. August 9.		1880. August 10.		1880. August 10.		1880. August 10.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
4918.0	5207.6	4918.0	5246.0	(2) 4918.0	(1) 5209.5	4918.0	5369.0	(2) 4918.0	(6) 5207.6
4919.8	5209.5	4919.8	5246.3	(1) 4919.8	(6) 5232.0	4919.8	5370.5	(1) 4919.8	(5) 5209.5
5047.8	5214.3	5004.9	5249.6	(6) 5035.2	(3) 5246.0	5004.9	5403.1	(6) 5035.8	(2) 5246.0
5048.0	5215.5	5005.2	5254.2	(5) 5035.8	(2) 5246.3	5005.2	5404.8	(4) 5040.2	(1) 5246.3
5049.4	5216.5	5006.5	5369.0	(3) 5077.9	(4) 5249.6	5006.5	5423.7	(5) 5041.2	(3) 5249.6
5051.0	5217.1	5040.2	5370.5	(4) 5078.8	(5) 5254.2	5040.2	5428.8	(3) 5077.9	(4) 5254.2
	5218.7	5041.2	5403.1	5034.8		5041.2		5034.8	
	5219.2		5404.8					5035.2	
Lat. + 12°		Lat. - 24		Lat. + 12°		Lat. + 24		Lat. - 17°	
Greenwich No. 343.		Greenwich No. 342.		Greenwich No. 344.		Greenwich No. 343.		Greenwich No. 344.	
1880. August 12.		1880. August 12.		1880. August 12.		1880. August 13.		1880. August 13.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
4870.2	5207.6	5034.8	5246.0	(5) 5034.8	(2) 5246.0	(4) 4870.2	(6) 5246.0	(5) 5034.8	(6) 5339.2
4871.3	5209.5	5035.2	5246.3	(4) 5035.2	(1) 5246.3	(3) 4871.3	(5) 5246.3	(4) 5035.2	(5) 5340.2
4890.0	5226.0	5035.8	5249.6	(3) 5035.8	(3) 5249.6d	(2) 4890.0	(1) 5369.0	(3) 5035.8	(2) 5369.0
4890.6	5232.0	5040.2	5323.4	(1) 5077.9	(4) 5254.2d	(1) 4890.6	(2) 5370.5	(1) 5040.2	(1) 5370.5
4918.0	5268.5	5041.2	5327.3	(2) 5098.2	(5) 5297.5	(5) 5040.2	(3) 5403.1	(2) 5041.2	(4) 5403.1
4919.8	5269.5	5077.9	5327.7	(6) 5138.6	(6) 5327.7	(6) 5041.2	(4) 5404.8	(6) 5077.9	(3) 5404.8
		5098.2		5141.8			5249.6d	5098.2	
				5142.2					
Lat. + 25		Lat. - 13		Lat. - 17		Lat. + 25°		Lat. - 16	
Greenwich No. 345.		Greenwich No. 343.		Greenwich No. 351.		Greenwich No. 349.		Greenwich No. 349.	
1880. August 17.		1880. August 17.		1880. August 31.		1880. August 31.		1880. September 1.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
(6) 5004.9	(6) 5224.2	(1) 5004.9	(5) 5246.0	(2) 4890.0	(6) 5203.7	4918.0	5203.7	5040.2	5203.7
(5) 5040.2	(5) 5224.6	(2) 5005.2	(4) 5246.3	(1) 4890.6	(5) 5205.3	4919.8	5205.3	5041.2	5205.3
(4) 5041.2	(1) 5369.0	(3) 5006.5	(6) 5249.6d	(4) 5040.2	(4) 5209.5	5040.2	5209.5	5064.2	5207.6
(3) 5138.6	(2) 5370.5	(6) 5035.8	(3) 5296.2	(3) 5041.2	(1) 5403.1	5041.2	5403.1	5064.4	5369.0
(2) 5141.8	(3) 5403.1	(4) 5040.2	(2) 5296.6	(5) 5138.6	(2) 5404.8	5138.6	5404.8	5077.9	5370.5
(1) 5142.2	(4) 5404.8	(5) 5041.2	(1) 5297.5	(6) 5142.2	(3) 5428.8	5141.8	5428.8	5098.2	5403.1
5005.2		5034.8	5254.2d	5141.8		5142.2			5404.8
5006.5		5035.2							
Lat. + 22		Lat. - 25		Lat. - 10		Lat. - 22		Lat. + 22	

Greenwich No. 351.		Greenwich No. 351.		Greenwich No. 351.		Greenwich No. 351.		Greenwich No. 355.	
1880. September 1.		1880. September 2.		1880. September 3.		1880. September 4.		1880. September 10.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
(4) 5040·2	(6) 5205·3	4870·2	5203·7	(5) 4918·0	(3) 5203·7	(3) 4918·0	(6) 5191·7	4870·2	5190·8
(5) 5041·2	(5) 5207·6	4871·3	5205·3	(4) 4919·8	(2) 5205·3	(2) 4919·8	(5) 5369·0	4871·3	5191·7
(6) 5077·9	(4) 5370·5	4890·0	5207·6	(1) 5040·2	(1) 5207·6	(4) 5040·2	(4) 5370·5	4890·0	5203·7
(1) 5138·6	(3) 5404·8	4890·6	5264·5	(2) 5041·2	(4) 5209·5	(5) 5041·2	(3) 5403·1	4890·6	5205·3
(3) 5141·8	(2) 5428·8	4918·0	5265·8	(3) 5138·6	(5) 5214·3	(1) 5138·6	(2) 5404·8	5040·2	5207·6
(2) 5142·2	(1) 5445·9	4919·8	5268·5	(6) 5142·2	(6) 5215·5	(6) 5142·2	(1) 5445·9	5041·2	5209·5
5098·2	5203·7		5269·5	5141·8	5216·5 5217·1	5141·8	5190·8		
Lat. + 10°		Lat. + 10°		Lat. + 10°		Lat. + 11°		Lat. - 17°	
Greenwich No. 357.		Greenwich No. 354.		Greenwich No. 359.		Greenwich No. 355.		Greenwich No. 357.	
1880. September 10.		1880. September 10.		1880. September 10.		1880. September 13.		1880. September 13.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
(2) 4870·2	(2) 5246·0	(1) 4870·2	(2) 5246·0	(4) 4870·2	(2) 5246·0	4870·2	5268·5	(6) 5035·8	(1) 5339·2
(1) 4871·3	(1) 5246·3	(2) 4871·3	(1) 5246·3	(3) 4871·3	(1) 5246·3	4871·3	5269·5	(4) 5040·2	(2) 5340·2
(4) 4890·0	(3) 5249·6 d	(3) 4890·0	(3) 5249·6 d	(2) 4890·0	(3) 5249·6 d	4890·0	5339·2	(5) 5041·2	(3) 5345·0
(3) 4890·6	(4) 5254·2 d	(4) 4890·6	(4) 5254·2 d	(1) 4890·6	(4) 5254·2 d	4890·6	5340·2	(3) 5138·6	(4) 5348·6
(6) 4918·0	(5) 5500·6	(5) 5040·2	(5) 5500·6	(5) 5077·9	(5) 5500·6	5040·2	5496·6	(2) 5141·8	(5) 5352·4
(5) 4919·8	(6) 5505·9	(6) 5041·2	(6) 5505·9	(6) 5098·2	(6) 5505·9	5041·2	5500·6	(1) 5142·2	(6) 5404·8
	5496·6		5496·6		5496·6		5505·9	5034·8 5035·2	5403·1
Lat. - 16°		Lat. + 25·1°		Lat. + 22°		Lat. - 17°		Lat. - 17°	
Greenwich No. 357.		Greenwich No. 359.		Greenwich No. 359.		Greenwich No. 359.		Greenwich No. 367.	
1880. September 13.		1880. September 13.		1880. September 16.		1880. September 18.		1880. September 25.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
(6) 4870·2	(3) 5203·7	5144·3	5246·0	(4) 4918·0		(6) 4870·2	(6) 5203·7	(6) 4919·8	(2) 5246·0
(5) 4871·3	(2) 5205·3	5145·7	5246·3	(3) 4919·8		(5) 4871·3	(5) 5205·3	(5) 5004·9	(1) 5246·3
(4) 4890·0	(1) 5207·6	5149·0	5496·6	(2) 5040·2		(4) 4890·0	(4) 5207·6	(4) 5005·2	(3) 5249·6 d
(3) 4890·6	(6) 5403·1	5156·0	5500·6	(1) 5041·2		(3) 4890·6	(1) 5224·6	(3) 5006·5	(4) 5254·2 d
(2) 5146·8	(5) 5404·8	5159·5	5505·9	(6) 5141·8		(1) 5040·2	(2) 5226·0	(2) 5040·2	
(1) 5149·0	(4) 5445·9	5162·2	5513·2	(5) 5142·2		(2) 5041·2	(3) 5227·3	(1) 5041·2	
				5138·6				4918·0	
Lat. - 17°		Lat. + 22°		Lat. + 22°		Lat. + 22°		Lat. - 21°	

Greenwich No. 367.		Greenwich No. 367.		Greenwich No. 368.		Greenwich No. 370.		Greenwich No. 367.	
1880. September 27.		1880. September 29.		1880. September 29.		1880. September 29.		1880. September 30.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
(6) 4870.2	(6) 5205.3	(6) 5035.8	(5) 5226.0	5004.9	5246.0	(1) 4918.0	(6) 5246.0	4981.0	5188.2
(5) 4871.3	(5) 5207.6	(4) 5004.9	(6) 5232.0	5005.2	5246.3	(2) 4919.8	(5) 5249.6 d	4981.8 d	5190.8
(4) 4890.0	(4) 5403.1	(3) 5006.5	(1) 5246.0	5006.5	5249.6 d	(6) 5035.2	(4) 5254.2 d	4982.5	5191.7
(3) 4890.6	(3) 5403.8	(5) 5005.2	(2) 5246.3	5034.8	5254.2 d	(5) 5035.8	(3) 5496.6	4983.3 d	5246.0 d
(2) 4918.0	(1) 5444.2	(2) 5040.2	(3) 5249.6 d	5035.2	5496.6	(3) 5040.1	(2) 5500.6	4984.8 d	5249.6 d
(1) 4919.8	(2) 5445.9	(4) 5041.2	(4) 5254.2 d	5035.8	5500.6	(4) 5041.2	(1) 5505.9	5047.8	5254.2 d
	5293.7	5034.8		5040.2	5505.9	5034.8	5246.3	5048.0	
		5035.2		5041.2				5049.4	
								5051.0	
								5077.9	
Lat. -20°		Lat. -20°		Lat. -18°		Lat. -17°		Lat. -20°	
Greenwich No. 368.		Greenwich No. 370.		Greenwich No. 367.		Greenwich No. 368.		Greenwich No. 370.	
1880. September 30.		1880. September 30.		1880. October 1.		1880. October 1.		1880. October 1.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
4981.0	5188.2	4981.0	5246.0 d	(6) 4890.6	(1) 5209.5	(1) 5077.9	(4) 5216.5	(5) 5034.8	(6) 5297.5
4981.8 d	5190.8	4981.8 d	5249.6 d	(3) 5034.8	(5) 5216.5	(2) 5078.8	(5) 5217.1	(4) 5035.2	(5) 5369.0
4982.5	5191.7	4982.5	5254.2 d	(2) 5035.2	(6) 5217.1	(3) 5079.8	(1) 5246.0 d	(3) 5035.8	(4) 5370.5
4983.3 d	5246.0 d	4983.3 d	5496.5	(1) 5035.8	(2) 5246.0 d	(4) 5080.6	(2) 5249.6 d	(1) 5040.1	(3) 5403.1
4984.8 d	5249.6 d	4984.5 d	5500.6	(4) 5040.1	(3) 5249.6 d	(5) 5081.8	(3) 5254.2 d	(2) 5041.2	(2) 5404.8
5047.8	5254.2 d	5035.8	5505.9	(5) 5041.2	(4) 5254.2 d	(6) 5082.2	(6) 5297.5	(6) 5077.9	(1) 5445.9
5048.0		5035.2		4990.0		5083.3		5078.8	
5049.4		5034.8							
5051.0		5040.1							
5077.9		5041.2							
Lat. -18°		Lat. -16°		Lat. -18°		Lat. -17°		Lat. -17°	
Greenwich No. 380.		Greenwich No. 380.		Greenwich No. 383.		Greenwich No. 392.		Greenwich No. 393.	
1880. October 14.		1880. October 21.		1880. October 31.		1880. November 22.		1880. November 22.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
(5) 5034.8	(5) 5246.0 d	(1) 4881.2		(6) 5048.0	(6) 5201.5	(2) 4870.2	(4) 5201.5	(1) 4983.3 d	(1) 5188.2
(4) 5035.2	(6) 5249.6 d	(3) 4886.5		(4) 5138.6	(5) 5203.7	(1) 4871.3	(3) 5203.7	(2) 4984.8 d	(2) 5190.8
(3) 5035.8	(1) 5301.3	(2) 4888.0	Cloudy	(5) 5139.4	(4) 5205.2	(4) 4890.0	(2) 5205.2	(3) 5077.9	(3) 5191.7
(2) 5040.1	(2) 5207.9	(1) 4888.3		(3) 5141.0	(3) 5207.6	(3) 4890.6	(1) 5207.6	(4) 5078.8	(6) 5203.7
(1) 5041.2	(3) 5208.2	(6) 5075.8		(2) 5141.8	(1) 5208.5	(6) 5040.1	(5) 5369.0	(5) 5079.8	(5) 5297.2
(6) 5077.9	(4) 5216.5	(5) 5077.6		(1) 5142.2	(2) 5327.3	(5) 5041.2	(6) 5370.5	(6) 5080.6	(4) 5297.6
5078.8	5247.5	5068.1		5047.8			5403.1		5291.5
5079.8		5071.0		5049.4			5404.8		
5080.6		5074.0		5051.0					
Lat. -25°		Lat. -18.1		Lat. -22.6		Lat. -22°		Lat. -9°	

Greenwich No. 393.		Greenwich No. 397.		Greenwich No. 400.		Greenwich No. 403.		Greenwich No. 405.	
1880. November 22.		1880. November 25.		1880. December 10.		1880. December 23.		1880. December 31.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
(1) 4983·3 d	(1) 5188·2	Cloudy	(4) 5533·8	Cloudy	(4) 5361·9	5077·9	5188·2		(3) 5203·7
(2) 4984·8 d	(2) 5190·8		(3) 5534·2		(3) 5363·9	5078·8	5190·8		(2) 5205·2
(3) 5077·9	(3) 5191·7		(1) 5536·2		(2) 5364·2	5079·8	5191·7		(1) 5207·6
(4) 5078·8	(6) 5203·7		(2) 5537·0		(1) 5366·5	5080·6	5208·5		(5) 5268·5
(5) 5079·8	(5) 5205·2					5098·2	5269·5		(4) 5269·5
(6) 5080·6	(4) 5207·6					5098·5	5370·5		(6) 5327·3
	5201·5					5090·2			5323·4
									5327·7
									5369·0
Lat. - 10°		Lat. + 21°		Lat. - 14°		Lat. + 20°		Lat. - 19°	
Greenwich No. 407.		Greenwich No. 407.		Greenwich No. 412.		Greenwich No. 412.		Greenwich No. 411.	
1881. January 6.		1881. January 7.		1881. January 31.		1881. January 31.		1881. January 31.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
(6) 4871·3	(2) 5268·5	(6) 4870·2	(4) 5268·5	(6) 4870·2	(6) 5264·5	(6) 4870·2	(6) 5207·6	(6) 4870·2	(6) 5207·6
(5) 4890·0	(1) 5269·5	(5) 4871·3	(3) 5269·5	(5) 4871·3	(5) 5268·5	(5) 4871·3	(5) 5268·5	(5) 4871·3	(5) 5268·5
(4) 4890·6	(4) 5323·4	(4) 4890·0	(6) 5369·0	(4) 4890·0	(1) 5323·4	(4) 4890·0	(3) 5323·4	(4) 4890·0	(3) 5323·4
(3) 4918·0	(6) 5327·3	(3) 4890·6	(5) 5370·5	(3) 4890·6	(3) 5327·3	(3) 4890·6	(2) 5327·3	(3) 4890·6	(2) 5327·3
(2) 4919·8	(5) 5327·7	(2) 4918·0	(1) 5726·5	(2) 4918·0	(2) 5327·7	(2) 4918·0	(1) 5327·7	(2) 4918·0	(1) 5327·7
(1) 5138·6	(3) 5428·9	(1) 4919·8	(2) 5730·0	(1) 4919·8	(4) 5370·5	(1) 4919·8	(4) 5370·5	(1) 4919·8	(4) 5370·5
4870·2	5370·5		5403·1 5404·8		5207·6				
Lat. + 26°		Lat. + 26°		Lat. - 14°		Lat. - 13°		Lat. + 15°	
Greenwich No. 433.		Greenwich No. 433.		Greenwich No. 436.		Greenwich No. 436.		Greenwich No. 436.	
1881. March 11.		1881. March 11.		1881. March 17.		1881. March 17.		1881. March 18.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
(6) 5019·2	(6) 5203·7	(4) 5077·9	(6) 5370·5	(5) 4918·0	(6) 5203·7	(1) 5040·1	(4) 5201·5	5084·0	5207·6
(5) 5021·8	(5) 5205·2	(3) 5078·8	(1) 5396·1	(4) 4919·8	(1) 5207·6	(2) 5041·2	(3) 5203·7	5085·0	5268·5
(4) 5026·2	(4) 5207·6	(2) 5079·8	(2) 5403·1	(3) 5136·8	(2) 5209·5	(5) 5077·9	(2) 5205·3	5086·5	5269·5
(3) 5027·2	(1) 5209·5	(1) 5080·6	(3) 5404·8	(1) 5142·2	(3) 5268·5	(6) 5078·8	(1) 5207·6	5086·8	5339·2
(2) 5028·9	(3) 5268·5	(5) 5107·0	(4) 5409·0	(2) 5150·0	(4) 5370·5	(4) 5079·8	(6) 5268·5	5087·7	5340·2
(1) 5030·0	(2) 5269·5	(6) 5109·8	(5) 5410·0	(6) 5161·6	(5) 5428·8	(3) 5080·6	(5) 5269·5	5088·1	5369·0
5011·5	5201·5				5201·5			5088·6	5370·5
5013·2	5226·0							5123·2	
5014·2	5232·0								
5016·6									
Lat. + 20°		Lat. + 26°		Lat. - 16°		Lat. - 15°		Lat. - 15·6°	

Greenwich No. 436.		Greenwich No. 461.		Greenwich No. 466.		Greenwich No. 485.		Greenwich No. 485.	
1881. March 19.		1881. April 23.		1881. April 30.		1881. May 30.		1881. May 31.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
(6) 4871.2	(6) 5205.2	4870.2	5327.3	4890.0	5339.2	(6) 4890.6	(3) 5203.7	(6) 4870.2	(4) 5219.2
(5) 4890.0	(5) 5207.6	4871.3	5327.7	4890.6	5340.2	(5) 4918.0	(2) 5205.2	(5) 4871.3	(2) 5370.5
(4) 4890.6	(1) 5209.5	4890.0	5369.0	4918.0	5369.0	(4) 4919.8	(1) 5207.6	(4) 4890.0	(3) 5396.1
(3) 4918.0	(2) 5219.2	4890.6	5370.5	4919.8	5370.5	(3) 4956.7	(6) 5219.2	(3) 4890.6	(1) 5404.8
(2) 4919.8	(3) 5223.4	4918.0	5403.1	5040.2	5403.1	(2) 5040.2	(5) 5428.8	(2) 4918.0	(6) 5460.0
(1) 4956.7	(4) 5426.0	4919.8	5404.8	5041.2	5404.8	(1) 5041.2	(4) 5445.9	(1) 4919.8	(5) 5461.0
4870.2						4890.0	5370.5 5404.8		
Lat. - 17°		Lat. + 7°		Lat. + 21°		Lat. - 11°		Lat. - 10°	
Greenwich No. 485.		Greenwich No. 485.		Greenwich No. 485.		Greenwich No. 485.		Greenwich No. 485.	
1881. May 31.		1881. June 1.		1881. June 2.		1881. June 3.		1881. June 3.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
(6) 4870.2	(4) 5219.2	(6) 4890.0	(3) 5219.2	(5) 5143.6	(6) 5218.7	(1) 5142.8	(6) 5218.7	(5) 5142.8	(1) 5671.0
(5) 4871.3	(2) 5370.5	(5) 4890.6	(2) 5268.5	(6) 5144.2	(5) 5481.0	(3) 5143.6	(5) 5628.0	(4) 5143.6	(2) 5672.0
(4) 4890.0	(3) 5396.1	(2) 4918.0	(1) 5370.5	(4) 5146.8	(3) 5671.0	(2) 5144.2	(3) 5671.0	(3) 5144.2	(6) 5701.4
(3) 4890.6	(1) 5404.8	(1) 4919.8	(6) 5426.0	(2) 5149.0	(4) 5672.0	(4) 5145.7	(4) 5672.0	(2) 5145.7	(5) 5702.6
(2) 4918.0	(5) 5460.0	(4) 5040.2	(5) 5726.5	(3) 5149.8	(2) 5726.5	(5) 5146.8	(2) 5726.5	(1) 5146.8	(4) 5726.5
(1) 4919.8	(5) 5461.0	(3) 5041.2	(4) 5730.0	(1) 5156.0	(1) 5730.0	(6) 5149.8	(1) 5730.0	(6) 5149.8	(3) 5730.0
	5426.0			5142.8					
Lat. - 11		Lat. - 10		Lat. - 10		Lat. - 9		Lat. - 9	
Greenwich No. 485.		Greenwich No. 485.		Greenwich No. 489.		Greenwich No. 489.		Greenwich No. 489.	
1881. June 4.		1881. June 6.		1881. June 11.		1881. June 13.		1881. June 14.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
	(6) 5218.7	(2) 5040.1	(5) 5218.7		(6) 5460.0	(3) 5065.4	(1) 5218.7		(6) 5493.6
	(4) 5236.8	(1) 5041.2	(4) 5628.0		(4) 5671.0	(4) 5067.0	(6) 5628.0		(5) 5529.5
	(5) 5238.0 d	(3) 5077.9	(6) 5671.0		(5) 5672.0	(1) 5142.8	(4) 5671.0		(4) 5531.6
	(3) 5481.0	(4) 5078.8	(3) 5702.6		(3) 5734.5	(2) 5146.8	(5) 5672.0		(3) 5777.5
	(1) 5671.0	(5) 5079.8	(2) 5863.2		(2) 5865.2	(6) 5149.8	(3) 5699.0		(2) 5868.4
	(2) 5672.0	(6) 5080.6	(1) 5865.2		(1) 5867.5	(5) 5156.0	(2) 5702.6		(1) 5863.2
			5672.0		5459.0				5192.5
Lat. - 8		Lat. - 7.8		Lat. - 15		Lat. - 15		Lat. - 15	

Greenwich No. 489.		Greenwich No. 498.		Greenwich No. 503.		Greenwich No. 501.		Greenwich No. 503.	
1881. June 15.		1881. June 24.		1881. June 29.		1881. June 29.		1881. June 30.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
	(2) 5267.2 (3) 5277.0 (1) 5636.2	(1) 4913.2 (5) 5040.1 (4) 5041.2 (3) 5077.9 (6) 5098.2 (2) 5142.2	(1) 5178.0 d (2) 5180.9 (3) 5271.4 d (4) 5671.0 (5) 5672.0 (6) 5776.5	(4) 4964.4 (5) 5065.4 (6) 5067.0 (2) 5146.8 (1) 5149.8 (3) 5151.6	(1) 5671.0 (2) 5672.0 (6) 5699.0 (5) 5702.6 (3) 5865.2 (4) 5867.5	(4) 4964.4 (6) 5129.6 (5) 5132.0 (2) 5146.8 (1) 5149.8 (3) 5151.6	(3) 5459.0 (2) 5460.0 (1) 5461.0 (5) 5698.0 (4) 5699.0 (6) 5702.6	(6) 5035.2 (5) 5035.8 (4) 5040.2 (3) 5041.2 (1) 5146.8 (2) 5149.8	(5) 5536.2 (6) 5537.0 (1) 5671.0 (2) 5672.0 (3) 5865.2 (4) 5867.5
								5034.8	
Lat. +15°		Lat. +16.3°		Lat. —15°		Lat. +26°		Lat. —14°	
Greenwich No. 501.		Greenwich No. 503.		Greenwich No. 503.		Greenwich No. 506.		Greenwich No. 515.	
1881. June 30.		1881. July 1.		1881. July 2.		1881. July 4.		1881. July 5.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
(1) 5077.9 (2) 5078.8 (3) 5079.8 (4) 5080.6 (5) 5082.2 (6) 5083.3	(6) 5296.2 (5) 5296.6 (4) 5297.5 (3) 5328.6 (2) 5329.2 (1) 5393.5		(1) 5459.0 (2) 5461.0 (3) 5486.0 (4) 5671.0 (5) 5672.0 (6) 5777.5		(5) 5460.0 (6) 5461.0 (3) 5699.0 (4) 5702.6 (2) 5777.5 (1) 5878.5	(1) 5040.1 (2) 5041.2 (5) 5078.8 (6) 5079.8 (4) 5150.0 (3) 5151.2	(6) 5262.4 (5) 5263.5 (4) 5264.5 (3) 5265.8 (2) 5268.5 (1) 5269.5	(4) 5037.8 (5) 5038.2 (6) 5038.8 (1) 5077.9 (2) 5078.8 (3) 5082.2	(1) 5170.1 (2) 5178.0 d (3) 5300.0 (4) 5496.6 (5) 5500.6 (6) 5505.9
						5080.6			
Lat. +27°		Lat. —15°		Lat. —15°		Lat. +24°		Lat. +16°	
Greenwich No. 517.		Greenwich No. 516.		Greenwich No. 517.		Greenwich No. 516.		Greenwich No. 517.	
1881. July 12.		1881. July 12.		1881. July 13.		1881. July 13.		1881. July 14.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
(6) 5133.8 (5) 5137.8 (4) 5140.4 (3) 5142.8 (1) 5146.8 (2) 5156.0	(1) 5459.0 (2) 5626.5 (3) 5671.0 (4) 5672.0 (5) 5726.5 (6) 5730.0	(6) 5142.2 (3) 5142.8 (1) 5146.8 (2) 5156.0 (4) 5158.5 (5) 5160.4	(1) 5671.0 (2) 5672.0 (3) 5726.5 (4) 5730.0 (5) 5736.5 (6) 5742.0	(2) 5077.9 (3) 5078.8 (4) 5080.6 (5) 5082.2 (6) 5083.3 (1) 5146.8	(1) 5671.0 (2) 5672.0 (4) 5699.0 (3) 5702.6 (5) 5865.2 (6) 5867.5	(1) 4863.2 (3) 4867.5 (2) 4869.5 (5) 5040.1 (4) 5041.2 (6) 5146.8	(6) 5426.0 (5) 5460.0 (1) 5671.0 (2) 5672.0 (3) 5736.5 (4) 5742.0	(6) 5040.1 (5) 5041.2 (4) 5142.8 (3) 5144.2 (1) 5146.8 (2) 5149.8	(6) 5218.7 (5) 5460.0 (1) 5671.0 (2) 5672.0 (4) 5699.0 (3) 5702.6
		5141.8							
Lat. +14°		Lat. —20°		Lat. +14°		Lat. —20°		Lat. +14°	

Greenwich No. 516.		Greenwich No. 516.		Greenwich No. 516.		Greenwich No. 516.		Greenwich No. 521.	
1881. July 14.		1881. July 15.		1881. July 16.		1881. July 18.		1881. July 18.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
(4) 5040.1	(6) 5218.7	(6) 5040.1	(6) 5426.0	(5) 5044.6	(6) 5259.5	(6) 5052.2	(6) 5444.0	(5) 5069.5	(6) 5218.7
(3) 5041.2	(1) 5671.0	(5) 5041.2	(5) 5460.0	(6) 5099.0	(4) 5671.0	(5) 5129.6	(5) 5460.0	(6) 5070.8	(5) 5459.0
(6) 5133.8	(2) 5672.0	(4) 5133.8	(1) 5671.0	(4) 5133.8	(5) 5672.0	(4) 5133.8	(4) 5461.0	(4) 5133.8	(3) 5671.0
(5) 5142.8	(4) 5699.0	(3) 5135.5	(2) 5672.0	(3) 5135.5	(3) 5688.5	(3) 5135.5	(1) 5671.0	(3) 5135.5	(4) 5672.0
(1) 5146.8	(3) 5702.6	(1) 5146.8	(4) 5699.0	(1) 5146.8	(2) 5699.0	(1) 5146.8	(2) 5672.0	(1) 5146.8	(2) 5699.0
(2) 5149.0	(5) 5736.5	(2) 5149.0	(3) 5702.6	(2) 5149.0	(1) 5702.6	(2) 5149.0	(3) 5702.6	(2) 5149.0	(1) 5702.6
Lat. - 20°		Lat. - 20°		Lat. - 19°		Lat. - 19°		Lat. + 14.2°	
Greenwich No. 522.		Greenwich No. 522.		Greenwich No. 521.		Greenwich No. 521.		Greenwich No. 525.	
1881. July 18.		1881. July 19.		1881. July 19.		1881. July 21.		1881. July 26.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
(3) 5043.0	(6) 5459.0	(6) 5129.6	(1) 5426.0	(6) 5129.6	(3) 5671.0	(4) 5034.8	(1) 5426.0	(3) 5077.9	(6) 5627.0
(6) 5129.6	(5) 5699.0	(5) 5132.0	(6) 5459.0	(5) 5132.0	(4) 5672.0	(5) 5035.2	(3) 5671.0	(4) 5078.8	(1) 5671.0
(5) 5133.8	(4) 5702.6	(4) 5133.8	(5) 5460.0	(4) 5133.8	(2) 5699.0	(6) 5035.8	(4) 5672.0	(5) 5079.8	(2) 5672.0
(4) 5135.5	(1) 5726.5	(3) 5135.5	(3) 5671.0	(3) 5135.5	(1) 5702.6	(1) 5146.8	(6) 5699.0	(6) 5080.6	(3) 5726.5
(1) 5146.8	(2) 5730.0	(1) 5146.8	(4) 5672.0	(1) 5146.8	(5) 5816.5	(2) 5149.0	(5) 5702.6	(1) 5146.8	(4) 5730.0
(2) 5149.0	(3) 5736.5	(2) 5149.0	(2) 5736.5	(2) 5149.0	(6) 5817.0	(3) 5158.4	(2) 5736.5	(2) 5149.0	(5) 5736.5
Lat. + 18.5°		Lat. + 18°		Lat. + 15°		Lat. + 13°		Lat. + 21°	
Greenwich No. 526.		Greenwich No. 522.		Greenwich No. 526.		Greenwich No. 525.		Greenwich No. 528.	
1881. July 26.		1881. July 26.		1881. July 28.		1881. July 28.		1881. July 28.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
(3) 5077.9	(6) 5426.0	(6) 5129.6	(6) 5426.0	(6) 5129.6	(5) 5426.0	(6) 5129.6	(5) 5426.0	(6) 5129.6	(5) 5426.0
(4) 5078.8	(1) 5671.0	(5) 5132.0	(5) 5628.0	(5) 5132.0	(6) 5626.0	(5) 5132.0	(6) 5626.0	(5) 5132.0	(6) 5626.0
(5) 5079.8	(2) 5672.0	(4) 5133.8	(1) 5671.0	(4) 5133.8	(1) 5671.0	(4) 5133.8	(1) 5671.0	(4) 5133.8	(1) 5671.0
(6) 5080.6	(5) 5699.0	(3) 5135.5	(2) 5672.0	(3) 5135.5	(2) 5672.0	(3) 5135.3	(2) 5672.0	(3) 5135.5	(2) 5672.0
(1) 5146.8	(4) 5702.6	(1) 5146.8	(4) 5699.0	(1) 5146.8	(4) 5699.0	(1) 5146.8	(4) 5699.0	(1) 5146.8	(4) 5699.0
(2) 5149.0	(3) 5736.5	(2) 5149.0	(3) 5702.6	(2) 5149.0	(3) 5702.6	(2) 5149.0	(3) 5702.6	(2) 5149.0	(3) 5702.6
Lat. + 27°		Lat. + 20°		Lat. + 27°		Lat. + 24°		Lat. + 16°	

Greenwich No. 526.		Greenwich No. 526.		Greenwich No. 538.		Greenwich No. 538.		Greenwich No. 533.	
1881. July 29.		1881. August 1.		1881. August 4.		1881. August 5.		1881. August 25.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
(6) 5129.6	(5) 5426.0	(6) 5065.4		(6) 5129.6	(6) 5426.0	(6) 5133.8	(1) 5426.0	(6) 5129.6	(4) 5426.0
(5) 5132.0	(6) 5426.0	(5) 5129.6		(5) 5132.0	(4) 5671.0	(5) 5135.5	(2) 5671.0	(5) 5132.0	(3) 5460.0
(4) 5133.8	(1) 5671.0	(4) 5133.8		(4) 5133.8	(5) 5672.0	(4) 5137.8	(3) 5672.0	(4) 5133.8	(1) 5671.0
(3) 5135.5	(2) 5672.0	(3) 5135.5		(3) 5135.5	(3) 5699.0	(3) 5142.8	(4) 5726.5	(3) 5135.5	(2) 5672.0
(1) 5146.8	(4) 5699.0	(1) 5146.8		(1) 5146.8	(2) 5702.6	(1) 5146.8	(5) 5730.0	(1) 5146.8	(5) 5726.5
(2) 5149.0	(3) 5702.6	(2) 5156.0		(2) 5149.0	(1) 5736.5	(2) 5149.0	(6) 5736.5	(2) 5149.0	(6) 5730.0
Lat. + 27.3°		Lat. + 27.8		Lat. + 13°		Lat. + 13°		Lat. + 20°	
Greenwich No. 553.		Greenwich No. 561.		Greenwich No. 561.		Greenwich No. 566.		Greenwich No. 572.	
1881. August 27.		1881. September 6.		1881. September 7.		1881. September 9.		1881. September 14.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
(6) 5136.8	(6) 5259.5	(5) 5044.6	(6) 5218.7	(5) 5044.6	(6) 5218.7	(6) 5133.8	(5) 5459.0	(4) 5133.8	(1) 5426.0
(5) 5137.8	(5) 5426.0	(4) 5133.8	(5) 5426.0	(4) 5133.8	(5) 5426.0	(5) 5135.5	(6) 5460.0	(3) 5135.5	(4) 5460.0
(4) 5139.4	(3) 5671.0	(3) 5135.5	(4) 5459.0	(3) 5135.5	(4) 5459.0	(2) 5142.8	(1) 5671.0	(6) 5142.8	(5) 5461.0
(3) 5140.4	(4) 5672.0	(6) 5142.8	(3) 5628.0	(6) 5142.8	(3) 5628.0	(3) 5146.8	(2) 5672.0	(1) 5146.8	(2) 5671.0
(1) 5146.8	(2) 5730.0	(1) 5146.8	(1) 5671.0	(1) 5146.8	(1) 5671.0	(4) 5149.0	(4) 5699.0	(2) 5149.0	(3) 5672.0
(2) 5149.8	(1) 5736.5	(2) 5149.0	(2) 5672.0	(2) 5149.0	(2) 5672.0	(1) 5156.0	(3) 5702.6	(5) 5156.0	(6) 5736.5
Lat. + 21°		Lat. - 25		Lat. - 25°		5461.0 Lat. + 13°		5137.8 Lat. + 23°	
Greenwich No. 566.		Greenwich No. 566.		Greenwich No. 572.		Greenwich No. 571.		Greenwich No. 571.	
1881. September 14.		1881. September 15.		1881. September 15.		1881. September 15.		1881. September 16.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
(4) 5133.8	(1) 5426.0	(6) 5129.6	(2) 5218.7	(6) 5129.6	(3) 5426.0	(6) 5129.6	(5) 5218.7	(6) 5129.6	(4) 5459.0
(3) 5135.5	(4) 5460.0	(5) 5132.0	(6) 5459.0	(5) 5132.0	(6) 5459.0	(5) 5132.0	(1) 5426.0	(5) 5132.0	(3) 5460.0
(6) 5142.8	(5) 5461.0	(4) 5133.8	(5) 5460.0	(4) 5133.8	(5) 5460.0	(4) 5133.8	(3) 5671.0	(4) 5142.8	(1) 5671.0
(1) 5146.8	(2) 5671.0	(3) 5135.5	(1) 5671.0	(3) 5135.5	(1) 5671.0	(3) 5135.5	(4) 5672.0	(1) 5146.8	(2) 5672.0
(2) 5149.0	(3) 5672.0	(2) 5137.8	(3) 5672.0	(2) 5137.8	(2) 5672.0	(2) 5137.8	(2) 5702.6	(2) 5149.0	(5) 5699.0
(5) 5156.0	(6) 5736.5	(1) 5146.8	(4) 5736.5	(1) 5146.8	(4) 5736.5	(1) 5146.8	(6) 5736.5	(3) 5156.0	(6) 5702.6
5137.8 Lat. + 12°		Lat. + 12°		Lat. + 23°		Lat. + 17°		Lat. + 18	

Greenwich No. 572.		Greenwich No. 572.		Greenwich No. 571.		Greenwich No. 572.		Greenwich No. 575.	
1881. September 16.		1881. September 17.		1881. September 17.		1881. September 19.		1881. September 26.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
(6) 5133.8	(3) 5459.0	(6) 5133.8	(6) 5460.0	(6) 5135.5	(6) 5459.0	(6) 5135.5	(6) 5218.7	(5) 5135.5	(1) 5426.0
(5) 5135.5	(4) 5460.0	(5) 5135.5	(1) 5671.0	(5) 5137.8	(5) 5460.0	(5) 5137.8	(1) 5671.0	(4) 5137.8	(2) 5459.0
(4) 5137.8	(5) 5671.0	(4) 5142.8	(2) 5672.0	(4) 5142.8	(1) 5671.0	(3) 5142.8	(2) 5672.0	(6) 5142.8	(3) 5460.0
(1) 5146.8	(6) 5672.0	(1) 5146.8	(5) 5699.0	(3) 5146.8	(2) 5672.0	(2) 5146.8	(3) 5726.5	(1) 5146.8	(4) 5671.0
(2) 5149.0	(1) 5726.5	(2) 5149.0	(4) 5702.6	(2) 5149.0	(3) 5726.5	(1) 5149.0	(4) 5730.0	(2) 5149.0	(5) 5672.0
(3) 5156.0	(2) 5730.0	(3) 5156.0	(3) 5736.5	(1) 5156.0	(4) 5730.0	(4) 5156.0	(5) 5736.5	(3) 5156.0	(6) 5702.6
			5459.0						5133.8
Lat. +23°		Lat. +22°		Lat. +18°		Lat. +23°		Lat. +21°	
Greenwich No. 575.		Greenwich No. 575.		Greenwich No. 575.		Greenwich No. 576.		Greenwich No. 576.	
1881. September 28.		1881. September 29.		1881. September 30.		1881. October 1.		1881. October 3.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
(6) 5133.8	(4) 5209.5	(6) 5133.8	(4) 5209.5	5133.8	Cloudy.	(6) 5044.5	(6) 5209.5	(6) 5061.4	(6) 5307.5
(5) 5135.5	(3) 5529.5	(5) 5135.5	(6) 5307.5	5135.5		(5) 5061.4	(5) 5307.5	(5) 5065.4	(4) 5320.3
(2) 5142.8	(1) 5671.0	(2) 5142.8	(5) 5321.3	5142.8		(3) 5085.0	(4) 5313.0	(3) 5085.0	(5) 5321.3
(4) 5146.8	(2) 5672.0	(4) 5146.8	(3) 5529.5	5146.8		(4) 5086.0	(3) 5628.0	(4) 5086.0	(3) 5628.0
(3) 5149.0		(3) 5149.0	(1) 5671.0	5149.0		(1) 5112.1	(1) 5851.1	(1) 5112.1	(2) 5851.1
(1) 5156.0		(1) 5156.0	(2) 5672.0	5156.0		(2) 5116.0	(2) 5865.2	(2) 5116.0	(1) 5865.2
Lat. +20°		Lat. +21°		Lat. +20°		Lat. +14°		Lat. +14°	
Greenwich No. 576.		Greenwich No. 586.		Greenwich No. 586.		Greenwich No. 589.		Greenwich No. 589.	
1881. October 4.		1881. October 10.		1881. October 11.		1881. October 15.		1881. October 18.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
(6) 5061.4	(6) 5307.5	(6) 5061.4	(6) 5307.5	(6) 5061.4	(6) 5307.5	(6) 5061.4	(6) 5297.5	5061.4	5307.5
(5) 5065.4	(5) 5320.3	(5) 5065.4	(5) 5320.3	(5) 5065.4	(5) 5320.3	(5) 5065.4	(5) 5320.3	5065.4	5320.3
(3) 5085.0	(4) 5321.3	(4) 5085.0	(4) 5321.3	(4) 5085.0	(4) 5321.3	(4) 5085.0	(4) 5321.3	5085.0	5321.3
(4) 5086.0	(3) 5628.0	(3) 5086.0	(3) 5628.0	(3) 5086.0	(3) 5628.0	(3) 5086.0	(3) 5628.0	5086.0	5626.7
(2) 5112.1	(2) 5851.1	(2) 5112.1	(2) 5846.3	(2) 5112.1	(2) 5846.3	(2) 5112.1	(2) 5846.3	5112.1	5852
(1) 5116.0	(1) 5865.2	(1) 5116.0	(1) 5863.2	(1) 5116.0	(1) 5863.2	(1) 5116.0	(1) 5863.2	5116.0	5865.2
Lat. +14°		Lat. +14.4°		Lat. +14.1°		Lat. +15.9°		Lat. +16°	

Greenwich No. 589.		Greenwich No. 591.		Greenwich No. 590.		Greenwich No. 589.		Greenwich No. 589.	
1881. October 18.		1881. October 18.		1881. October 18.		1881. October 19.		1881. October 19.	
F—b	b—D	F —b	b —D	F—b	b—D	F—b	b—D	F—b	b—D
5061	5307.5	(5) 5042.3	(3) 5431.6	(5) 5042.3	(3) 5431.6	(6) 5061.2	(4) 5307.5	(6) 5061.2	(4) 5307.5
5065	5320.3	(6) 5045	(4) 5434.5	(6) 5045	(4) 5434.5	(5) 5065	(5) 5320.3	(5) 5065	(5) 5320.3
5085	5321.3	(3) 5085	(5) 5435.5	(3) 5085	(5) 5435.5	(4) 5085	(6) 5321.3	(4) 5085	(6) 5321.3
5086	5626.7	(4) 5086	(6) 5463.3	(4) 5086	(6) 5463.3	(3) 5086	(3) 5626.7	(3) 5086	(3) 5626.7
5112.1	5852	(2) 5112.1	(2) 5846	(2) 5112.1	(2) 5846	(2) 5112.1	(2) 5852	(2) 5112.1	(2) 5852
5116.2	5865	(1) 5116.2	(1) 5865	(1) 5116.2	(1) 5865	(1) 5116.2	(1) 5865	(1) 5116.2	(1) 5865

Greenwich No. 603.	Greenwich No. 607.	Greenwich No. 606.	Greenwich No. 607.	Greenwich No. 603.
1881. November 19.	1881. November 19.	1881. November 19.	1881. November 21.	1881. November 21.
F—b b—D	F—b b—D	F—b b—D	F—b b—D	F—b b—D
(1) 5112.1 (6) 5424.5 (3) 5116.0 (3) 5426 (5) 5118.0 (5) 5447 (1) 5126.3 (4) 5460 (2) 5159.5 (1) 5671 (3) 5162.2 (2) 5672	(1) 5112.1 (1) 5200.5 (2) 5116 (4) 5426.0 (3) 5118 (5) 5460.0 (4) 5120 (6) 5489.0 (5) 5156 (2) 5726.5 (6) 5162.2 (3) 5730.0	(1) 5112.1 (5) 5426.0 (2) 5116 (6) 5489.0 (3) 5118 (1) 5671 (4) 5120 (2) 5672 (5) 5156 (3) 5726.5 (6) 5162.2 (4) 5730.5	(3) 5112.1 (1) 5200.5 (1) 5116 (6) 5426.0 (2) 5118 (2) 5671 (4) 5156 (3) 5672 (5) 5159.5 (4) 5736.5 (6) 5162.2 (5) 5744.5	(3) 5112.1 (1) 5219.2 (1) 5116 (2) 5426 (2) 5118 (3) 5460 (4) 5156 (4) 5489 (5) 5159.5 (5) 5736.5 (6) 5162.2 (6) 5743.5
		5460.0		
Lat. - 17.1	Lat. + 11	Lat. + 19	Lat. + 11	Lat. + 17
Greenwich No. 606.	Greenwich No. 607.	Greenwich No. 607.	Greenwich No. 606.	Greenwich No. 606.
1881. November 21.	1881. November 23.	1881. November 23.	1881. November 23.	1881. November 26.
F—b b—D	F—b b—D	F—b b—D	F—b b—D	F—b b—D
(1) 5121 (1) 5671 (3) 5130 (2) 5672 (4) 5132 (6) 5699.0 (5) 5135.5 (5) 5702.6 (6) 5137.8 (3) 5726.5 (2) 5160.4 (4) 5730	(1) 5120 (5) 5426 (2) 5123.2 (6) 5460 (3) 5126.5 (3) 5671 (4) 5156.0 (4) 5672 (5) 5159.5 (1) 5726.5 (6) 5162.2 (2) 5730.0	(1) 5120 (5) 5426 (2) 5123.2 (6) 5460 (3) 5126.5 (3) 5671 (4) 5156.0 (4) 5672 (5) 5159.5 (1) 5726.5 (6) 5162.2 (2) 5730	5077.9 5489.0 5078.8 5489.5 5079.8 5532.0 5080.6 5532.5 5082.2 5626.0 5083.3 5627.5	5116.0 5209.5 5118.0 5426.0 5120.0 5460.0 5156.0 5671.0 5159.5 5672.0 5162.2 5726.5
				5730.0
Lat. - 18	Lat. + 11	Lat. - 10	Lat. + 17	Lat. + 16.5
Greenwich No. 614.	Greenwich No. 614.	Greenwich No. 614.	Greenwich No. 619.	Greenwich No. 618.
1881. November 28.	1881. November 29.	1881. December 3.	1881. December 3.	1881. December 3.
F—b b—D	F—b b—D	F—b b—D	F—b b—D	F—b b—D
(4) 5129.6 (2) 5219.2 (3) 5133.8 (1) 5224.6 (2) 5135.5 (3) 5460.0 (1) 5137.0 (6) 5513.2 (6) 5145.7 (4) 5536.2 (5) 5149.0 (5) 5537.0	(1) 5116 (1) 5207.6 (2) 5118 (4) 5206d (3) 5120 (5) 5297.5 (4) 5129.6 (2) 5426.0 (5) 5137.0 (3) 5627.5 (6) 5141.0	5133.8 5240 5135.5 5246.0 5137.8 5246.5 5156.0 5249.6 5159.5 5254.2 5162.0	(4) 5116.0 (5) 5426.0 (5) 5118.0 (4) 5460.0 (6) 5120.0 (6) 5461.0 (3) 5156.0 (3) 5637.5 (2) 5159.5 (1) 5723.0 (1) 5162.2 (2) 5726.5	(6) 5133.8 (1) 5426.0 (5) 5135.5 (4) 5460.0 (4) 5137.8 (5) 5461.0 (3) 5156.0 (6) 5627.5 (2) 5159.5 (2) 5723.0 (1) 5162.2 (2) 5726.5
5627.5				
Lat. - 20	Lat. - 20	Lat. - 20	Lat. - 25	Lat. - 20

Greenwich No. 619.		Greenwich No. 619.		Greenwich No. 614.		Greenwich No. 627.		Greenwich No. 628.	
1881. December 6.		1881. December 8.		1881. December 8.		1881. December 19.		1881. December 19.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
(1) 5116	(5) 5577·6	(4) 5085	(5) 5577·6	(4) 5065	(6) 5426	(6) 5133·8	(3) 5426·0	(6) 5133·8	(3) 5426
(2) 5118	(4) 5583·5	(5) 5086	(4) 5583·5	(5) 5085	(5) 5460	(5) 5135·8	(1) 5671	(5) 5135·8	(6) 5460
(3) 5120	(3) 5626·0 d	(1) 5116	(3) 5627·5 d	(6) 5086	(4) 5671	(4) 5137·8	(2) 5672	(4) 5137·5	(1) 5671
(4) 5127·5	(1) 5726·5	(2) 5118	(2) 5726·5	(1) 5116	(3) 5674·5	(1) 5156·0	(6) 5726·5	(1) 5156·0	(2) 5672
(5) 5129·6	(2) 5730·0	(3) 5120	(1) 5730·0	(2) 5118	(2) 5726·5	(2) 5159·5	(4) 5736·5	(2) 5159·5	(4) 5736·5
(6) 5132·0		(6) 5132		(3) 5120	(1) 5730·0	(3) 5162·2	(5) 5743·0	(3) 5162·2	(5) 5742·0
							5730·0		5459 5627·5
Lat. + 28°		Lat. + 25°		Lat. - 18·7°		Lat. + 28°		Lat. + 16°	
Greenwich No. 627.		Greenwich No. 638.		Greenwich No. 638.		Greenwich No. 642.		Greenwich No. 642.	
1881. December 21.		1882. January 2.		1882. January 3.		1882. January 7.		1882. January 9.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
(6) 5133·5	(6) 5426	5077·9	5224·2	(1) 5112·1	(3) 5203·7	(3) 5034·8	Three more refrangible than 5226	(2) 5034·8	Three more refrangible than 5226
(5) 5135·8	(5) 5460	5078·8	5224·6	(2) 5123·2	(2) 5205·2	(2) 5035·2		(3) 5035·2	
(4) 5137·5	(1) 5671	5079·8	5296·2	(3) 5124·2	(1) 5207·6	(1) 5035·8		(1) 5035·8	
(3) 5156	(2) 5672	5080·6	5296·6	(4) 5150	(6) 5265·8	(6) 5037·8		(6) 5037·8	
(2) 5159·5	(4) 5726·5	5082·2	5297·5 d	(5) 5151·2	(5) 5268·5	(5) 5038·2		(5) 5038·2	
(1) 5162·2	(3) 5730	5083·3		(6) 5165·8	(4) 5269·5	(4) 5038·8	(2) 5296·6	(4) 5038·8	(6) 5254·2
					5264·5				
Lat. + 28°		Lat. + 16°		Lat. + 16°		Lat. + 17°		Lat. + 17°	
Greenwich No. 645.		Greenwich No. 653.		Greenwich No. 658.		Greenwich No. 670.		Greenwich No. 668.	
1882. January 9.		1882. January 21.		1882. February 1.		1882. February 11.		1882. February 11.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
(3) 5034·8	Three more refrangible than 5226	(4) 5132·0	(3) 5224 t	(3) 5132·0	(4) 5224·0 t	5137·8	5246 t	(6) 5129·6	(3) 5536·2
(2) 5035·2		(3) 5133·8	(4) 5246·0	(1) 5133·8	(3) 5296·2	5146·0	5426	(5) 5133·8	(4) 5537·0
(1) 5035·8		(2) 5135·5	(5) 5249·6	(2) 5135·5	(1) 5726·5	5149·0	5460	(1) 5142·8	(5) 5626·7
(5) 5037·8		(1) 5137·8	(1) 5726·5	(4) 5137·8	(2) 5730·0	5156·0	5726·5	(2) 5146·8	(6) 5627·5
(6) 5038·2		(6) 5146·8	(2) 5730·0	(5) 5145·7		5159·5	5730	(3) 5149·0	(1) 5671
(4) 5038·8	(6) 5234·2	(5) 5149·0		(6) 5149·8		5162·2		(4) 5156·0	(2) 5672
Lat. + 28°		Lat. - 17°		Lat. + 16°		Lat. + 11°		Lat. + 8°	

Greenwich No. 670.		Greenwich No. 670.		Greenwich No. 672.		Greenwich No. 668.		Greenwich No. 687a.	
1882. February 14		1882. February 14.		1882. February 14.		1882. February 14.		1882. March 3.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5129.6	Triple more refrangible than 5226	5129.6	5536.2	5129.6	5627.0	5129.6	5536.2	(6) 5133.8	(4) 5426
5132.0		5132.0	5537.0	5132.0	5627.5	5132.0	5537.0	(5) 5133.8	(2) 5671.0
5133.8		5133.8	5627.0	5133.8	5671	5133.8	5627.0	(4) 5137.8	(3) 5672.0
5135.8		5135.8	5627.5	5135.8	5672	5135.8	5627.5	(3) 5156.0	(1) 5706.0
5146.0		5146.0	5671	5146.0	5726.5	5146.0	5671	(2) 5159.5	(5) 5726.5
5156.0	5726.5	5156.0	5672	5156.0	5730	5156.0	5672	(1) 5162.2	(6) 5730
	5730								
Lat. - 11°		Lat. + 10°		Lat. - 19°		Lat. + 7°		Lat. - 14°	
Greenwich No. 687b.		Greenwich No. 687.		Greenwich No. 691.		Greenwich No. 697.		Greenwich No. 695.	
1882. March 3.		1882. March 4.		1882. March 12.		1882. March 12.		1882. March 12.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
(6) 5133.8	(5) 5626.0	(6) 5133.8	(5) 5626.0	5133.8	5426	5133.8	5426	5133.8	5426
(5) 5135.8	(6) 5627.5	(5) 5135.8	(6) 5627.5	5135.5	5460	5135.5	5460	5135.5	5460
(4) 5137.8	(1) 5671	(4) 5137.8	(1) 5671	5137.8	5461	5137.8	5461	5137.8	5461
(3) 5156.0	(2) 5672	(3) 5156.0	(2) 5672	5156.0	5671	5156.0	5671	5156.0	5671
(2) 5159.5	(3) 5726.5	(2) 5159.5	(3) 5726.5	5159.5	5672	5159.5	5672	5159.5	5672
(1) 5162.2	(4) 5730	(1) 5162.2	(4) 5730	5162.0	5726.5	5162.0	5726.5	5162.0	5726.5
				5730		5730		5730	
Lat. - 14°		Lat. - 13°		Lat. - 1°		Lat. - 15°		Lat. + 10°	
Greenwich No. 694.		Greenwich No. 691.		Greenwich No. 697.		Greenwich No. 695.		Greenwich No. 694.	
1882. March 12.		1882. March 14.		1882. March 14.		1882. March 14.		1882. March 14.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5133.8	5426	(1) 5123.2	(1) 5426.0	(1) 5123.2	(1) 5426.0	(3) 5123.2	(1) 5426.0	(3) 5123.2	(5) 5426
5135.5	5460	(5) 5133.8	(6) 5459.0	(5) 5133.8	(6) 5459.0	(6) 5133.8	(6) 5459.0	(6) 5133.8	(6) 5459
5137.8	5461	(4) 5135.8	(2) 5671.0	(4) 5135.8	(2) 5671.0	(5) 5135.8	(2) 5671.0	(5) 5135.8	(1) 5671
5156.0	5671	(3) 5137.8	(3) 5672.0	(3) 5137.8	(3) 5672.0	(4) 5137.8	(3) 5672.0	(4) 5137.8	(2) 5672
5159.5	5672	(2) 5146.0	(4) 5726.5	(2) 5146.0	(4) 5726.5	(1) 5146.0	(4) 5726.5	(1) 5146.0	(3) 5726.5
5162.0	5726.5	(6) 5162.2	(5) 5730.0	(6) 5162.2	(5) 5730.0	(2) 5149.0	(5) 5730.0	(2) 5149.0	(4) 5730
	5730	5156.0	5460.0		5460.0		5460.0		5460
		5159.5							
Lat. - 14°		Lat. - 0.4°		Lat. - 15°		Lat. + 9°		Lat. - 15°	

Greenwich No. 699.		Greenwich No. 691.		Greenwich No. 695.		Greenwich No. 694.		Greenwich No. 699.	
1882. March 14.		1882. March 15.		1882. March 15.		1882. March 15.		1882. March 15.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
(6) 5133·8	(3) 5426·0	(6) 5123·2	(3) 5426	(6) 5129·6	(5) 5426	(6) 5133·8	(5) 5426	(6) 5133·8	(5) 5426
(5) 5135·8	(4) 5459·0	(5) 5133·8	(4) 5459	(5) 5133·8	(6) 5460	(5) 5133·8	(6) 5460	(5) 5135·8	(6) 5459
(4) 5137·8	(5) 5460·0	(4) 5135·8	(5) 5460	(4) 5135·8	(1) 5671	(4) 5137·8	(1) 5671	(4) 5137·8	(1) 5671
(3) 5139·4	(1) 5671·0	(3) 5137·8	(1) 5671	(3) 5137·8	(2) 5672	(3) 5142·8	(2) 5672	(3) 5142·8	(2) 5672
(1) 5146·0	(2) 5672·0	(1) 5146	(2) 5672	(1) 5146	(3) 5726·5	(1) 5146·0	(3) 5726·5	(1) 5146·0	(3) 5726·5
(2) 5149·0	(6) 5726·5	(2) 5149	(6) 5726·5	(2) 5149	(4) 5730	(2) 5149·0	(4) 5730	(2) 5149·0	(4) 5730
	5730·0		5730		5459		5459		
Lat. - 18°		Lat. - 0·4°		Lat. + 9°		Lat. - 15°		Lat. - 18°	
Greenwich No. 702.		Greenwich No. 691.		Greenwich No. 702.		Greenwich No. 699.		Greenwich No. 695.	
1882. March 15.		1882. March 16.		1882. March 16.		1882. March 16.		1882. March 16.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
(6) 5129·6	(1) 5426	(5) 5133·8	(5) 5426	(5) 5133·8	(5) 5426	(6) 5133·8	(5) 5626·0	(6) 5133·8	(5) 5626·0
(5) 5132	(2) 5460	(4) 5135·8	(6) 5459	(4) 5135·8	(6) 5460	(5) 5135·8	(6) 5627·5	(5) 5135·8	(6) 5627·5
(4) 5133·8	(3) 5671	(3) 5137·8	(1) 5671	(3) 5137·8	(1) 5671	(4) 5137·8	(1) 5671	(4) 5137·8	(1) 5671
(3) 5135·8	(4) 5672	(1) 5146·0	(2) 5672	(1) 5146	(2) 5672	(1) 5146·0	(2) 5672	(3) 5142·8	(2) 5672
(1) 5146	(5) 5726	(2) 5149·0	(3) 5726·5	(2) 5149	(3) 5726·5	(2) 5149·0	(3) 5726·5	(1) 5146	(3) 5726·5
(2) 5149	(6) 5730	(6) 5156·0	(4) 5730	(6) 5156	(4) 5730	(3) 5156·0	(4) 5730	(2) 5149	(4) 5730
	5459		5460		5459				
Lat. - 23°		Lat. - 0·3°		Lat. - 23°		Lat. - 18°		Lat. + 10°	
Greenwich No. 702.		Greenwich No. 699.		Greenwich No. 702.		Greenwich No. 699.		Greenwich No. 702.	
1882. March 17.		1882. March 17.		1882. March 18.		1882. March 18.		1882. March 20.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
(5) 5133·8	(3) 5426	(5) 5133·8	(3) 5426	(6) 5129·6	(3) 5426	(6) 5129·6	(3) 5426	(6) 5129·6	(5) 5426
(6) 5135·8	(6) 5460	(6) 5135·8	(6) 5459	(5) 5132	(6) 5459	(5) 5132	(6) 5459	(5) 5132	(6) 5459
(4) 5137·8	(1) 5671	(4) 5137·8	(1) 5671	(4) 5133·8	(1) 5671	(4) 5133·8	(1) 5671	(4) 5133·8	(1) 5671
(3) 5142·8	(2) 5672	(3) 5142·8	(2) 5672	(3) 5135·8	(2) 5672	(3) 5135·8	(2) 5672	(3) 5135·8	(2) 5672
(1) 5146	(4) 5726·5	(1) 5146	(5) 5726	(1) 5146	(4) 5726·5	(1) 5146	(4) 5726·5	(1) 5146	(3) 5726·5
(2) 5149	(5) 5730·0	(2) 5149	(4) 5730	(2) 5149	(5) 5730	(2) 5149	(5) 5730·0	(2) 5149	(4) 5730
	5459		5460		5460		5460		5460
Lat. - 23°		Lat. - 20°		Lat. - 23°		Lat. - 19°		Lat. - 23°	

Greenwich No. 704.		Greenwich No. 703.		Greenwich No. 703.		Greenwich No. 699.		Greenwich No. 705.	
1882. March 20.		1882. March 20.		1882. March 20.		1882. March 20.		1882. April 1.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
(6) 5129.6	(3) 5249.6 d	(6) 5129.6	(5) 5426	(6) 5129.6	(5) 5426	(6) 5129.6	(5) 5426	(6) 5132.0	(5) 5426
(5) 5132	(4) 5254.2 d	(5) 5132	(6) 5460	(5) 5132	(6) 5460	(5) 5132	(6) 5460	(5) 5133.8	(6) 5459
(4) 5133.8	(1) 5671	(4) 5133.8	(1) 5671	(4) 5133.8	(1) 5671	(4) 5133.8	(1) 5671	(4) 5135.8	(1) 5671
(3) 5135.8	(2) 5672	(3) 5135.8	(2) 5672	(3) 5135.8	(2) 5672	(3) 5135.8	(2) 5672	(3) 5137.8	(2) 5672
(1) 5146		(1) 5146	(3) 5726.5	(1) 5146	(3) 5726.5	(2) 5137.8	(3) 5726.5	(1) 5146	(3) 5726.5
(2) 5149		(2) 5149	(4) 5730	(2) 5149	(4) 5730	(1) 5139.4	(4) 5730	(2) 5149	(4) 5730
			5459		5459				5460
Lat. + 21°		Lat. - 5°		Lat. - 6°		Lat. - 19°		Lat. - 10°	
Greenwich No. 718.		Greenwich No. 718.		Greenwich No. 718.		Greenwich No. 722.		Greenwich No. 726.	
1882. April 4.		1882. April 6.		1882. April 8.		1882. April 8.		1882. April 20.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
(6) 5129.6	(5) 5459	(6) 5133.8	(5) 5426	(3) 5133.8	(5) 5426	(3) 5133.8	(5) 5426	5146	5219.2
(5) 5132.0	(6) 5460	(5) 5135.8	(6) 5627.5	(2) 5135.8	(6) 5627.5	(2) 5135.8	(6) 5627.5	5149	5238.0
(4) 5133.8	(1) 5671	(4) 5137.8	(1) 5671	(1) 5137.8	(1) 5671	(1) 5137.8	(1) 5671		5259.5
(3) 5135.8	(2) 5672	(3) 5157.5	(2) 5672	(4) 5157.0	(2) 5672	(4) 5157.0	(2) 5672	Cloudy	5268.5
(2) 5137.8	(3) 5726.5	(2) 5159.5	(4) 5726.5	(5) 5159.5	(3) 5726.5	(5) 5159.5	(3) 5726.5		5726.5
(1) 5146.0	(4) 5730	(1) 5162.2	(3) 5730	(6) 5162.2	(4) 5730	(6) 5162.2	(4) 5730		5730
	5426				5460		5460		
Lat. - 1°		Lat. 0°		Lat. 0°		Lat. + 21°		Lat. - 17°	
Greenwich No. 729.		Greenwich No. 735.		Greenwich No. 744.		Greenwich No. 744.		Greenwich No. 744.	
1882. April 21.		1882. April 28.		1882. May 2.		1882. May 3.		1882. May 8.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5132	5219.2	(1) 5116	(6) 5209.5	(5) 5129.6	(4) 5460	(2) 5136.5	(1) 5218.7	(4) 4944	(5) 5459
5135.5	5238.0	(2) 5118	(4) 5295.5	(4) 5132	(5) 5536.2	(3) 5142	(2) 5459	(3) 5039	(6) 5460
5135.8	5259.5	(3) 5132.5	(5) 5426	(2) 5136	(6) 5537.0	(1) 5146	(3) 5460	(5) 5136.5	(1) 5671
5136.8	5268.5	(4) 5132.9	(1) 5671	(1) 5137.8	(3) 5626		(4) 5626	(6) 5142	(2) 5672
5146	5726.5	(5) 5136	(2) 5672	(3) 5149.8	(2) 5627.5	Cloudy	(5) 5627.5	(2) 5159	(4) 5813.5
5149	5730		(3) 5730		(1) 5726.5		(6) 5730	(1) 5162	(3) 5865.2
Lat. - 20°		Lat. - 10°		Lat. - 23°		Lat. + 24°		Lat. + 23°	

Greenwich No. 744.		Greenwich No. 759.		Greenwich No. 759.		Greenwich No. 759.		Greenwich No. 759.	
1882. May 9.		1882. May 16.		1882. May 18.		1882. May 19.		1882. May 20.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
(6) 5133·8	(5) 5459	Cloudy	(6) 5671	5061·4	5218·7	(5) 5133·8	(1) 5218	(5) 5133·8	(6) 5460
(5) 5135·8	(6) 5460		(5) 5672	5064·4	5219·2	(4) 5135·5	(2) 5219	(4) 5135·5	(5) 5669·5
(3) 5146	(1) 5671		(3) 5734·5	5135·5	5259·5	(6) 5136	(3) 5238	(6) 5136	(4) 5670·5
(4) 5149	(2) 5672		(4) 5738	5149	5426	(3) 5146	(4) 5426	(3) 5146·0	(3) 5736·5
(2) 5159·5	(4) 5813·5		(2) 5742	5156·0	5626	(2) 5156	(6) 5627·5	(2) 5156	(2) 5742·2
(1) 5162·2	(3) 5865·2		(1) 5851·1	5159·5	5671	(1) 5159·5	(5) 5628	(1) 5159·5	(1) 5865·2
					5672				5238·0
Lat. + 23°		Lat. - 27°		Lat. - 30°		Lat. - 30°		Lat. - 30°	
Greenwich No. 765.		Greenwich No. 777.		Greenwich No. 777.		Greenwich No. 787.		Greenwich No. 788.	
1882. May 30.		1882. June 16.		1882. June 17.		1882. June 27.		1882. July 1.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
Cloudy	5256	(4) 5133·0		5133·0		5136	5235	5133·8	5699
	5259·5	(2) 5136·0		5136·0		5137·5	5256	5135·8	5703
	5489	(3) 5143·2		5143·2		5155·1	5671	5146·8	5777·5
	5701·4	(5) 5146		5146		5159·5	5672	5149	5826·5
		(6) 5149		5149		5161	5726·5	5159·5	5829·5
		(1) 5156		5156		5162	5730	5161·5	5865·2
Lat. + 14°		Lat. - 12°		Lat. - 12°		Lat. - 20°		Lat. - 15°	
Greenwich No. 787.		Greenwich No. 788.		Greenwich No. 792.		Greenwich No. 794.		Greenwich No. 797.	
1882. July 1.		1882. July 3.		1882. July 7.		1882. July 12.		1882. July 14.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5133·8	5699	(1) 5139·4	(6) 5602	(1) 5077·9	(3) 5224t	(4) 4870·2	(6) 5201·5	(4) 5142·2d	(5) 5426·0
5135·8	5703	(2) 5146·8	(3) 5671	(2) 5078·8	(1) 5296·2	(3) 4871·3	(5) 5203·7	(3) 5143·0	(6) 5460·0
5146·8	5777·5	(3) 5156·0	(4) 5672	(3) 5079·8	(2) 5296·6	(2) 4890·0	(4) 5205·2	(2) 5144·5t	(3) 5671·0
5149	5826·5	(4) 5157·2	(5) 5678	(4) 5080·6	(4) 5431·6d	(1) 4890·6	(5) 5207·6	(1) 5146	(4) 5672·0
5159·5	5829·5		(1) 5721·5	(5) 5082·2		(5) 5040·1	(1) 5268·5		(2) 5730·0
5161·5	5865·2		(2) 5729·5	(6) 5083·3		(6) 5041·2	(2) 5269·5		(1) 5734·5
Lat. - 19°		Lat. - 15°		Lat. - 5°		Lat. + 16°		Lat. + 14°	

Greenwich No. 794.		Greenwich No. 797.		Greenwich No. 797.		Greenwich No. 797.		Greenwich No. 797.	
1882. July 15.		1882. July 17.		1882. July 18.		1882. July 19.		1882. July 20.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
(4) 5035 t	(4) 5224 t	(6) 5135·8	(6) 5426	(3) 5144·2	(6) 5426	5144·2	5671	(6) 5142·8	(6) 5426
(3) 5038 t	(3) 5226 t	(5) 5146·0	(1) 5671	(1) 5146·0	(1) 5671	5146	5672	(5) 5146	(1) 5671
(1) 5040·1	(1) 5671	(4) 5149·0	(2) 5672	(2) 5149·0	(2) 5672	5149	5726·5	(4) 5149	(2) 5672
(2) 5041·2	(2) 5672	(3) 5156·0	(3) 5726·5	(5) 5156	(3) 5726·5	5156	5730	(3) 5156	(3) 5726·5
		(2) 5159·5	(4) 5730	(4) 5160 d	(4) 5730	5159·5	5736·5	(2) 5159·5	(4) 5730
		(1) 5162·0	(5) 5736·5		(5) 5736·5	5162·2		(1) 5162·2	(5) 5736·5
Lat. + 16°		Lat. + 15°		Lat. + 15°		Lat. + 15°		Lat. + 15°	
Greenwich No. 797.		Greenwich No. 803.		Greenwich No. 797.		Greenwich No. 808.		Greenwich No. 808.	
1882. July 21.		1882. July 21.		1882. July 24.		1882. July 31.		1882. August 3.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
(6) 5133·8	(4) 5426	(6) 5133·8	(5) 5426	(6) 5129·6	(6) 5218·7	(6) 5129·6	(6) 5218·7	(1) 5077·9	(6) 5218·7
(5) 5135·8	(1) 5671	(5) 5135·8	(6) 5459	(5) 5132	(5) 5426	(5) 5132	(5) 5626	(2) 5078·8	(5) 5459
(4) 5137·8	(2) 5672	(4) 5137·8	(1) 5671	(4) 5133·8	(3) 5459	(4) 5133·8	(1) 5671	(3) 5079·8	(1) 5671
(3) 5146·0	(3) 5727·5	(3) 5146·0	(2) 5672	(3) 5135·8	(4) 5460	(3) 5135·8	(2) 5672	(4) 5080·6	(2) 5672
(2) 5149·5	(5) 5730	(2) 5149·5	(3) 5699	(2) 5137·8	(1) 5671	(2) 5146	(4) 5699	(5) 5082·2	(4) 5699
(1) 5156·0	(6) 5736·5	(1) 5156·0	(4) 5702	(1) 5146·0	(2) 5672	(1) 5149	(3) 5702	(6) 5083·3	(3) 5702
Lat. + 15°		Lat. - 18°		Lat. + 14°		Lat. - 11°		Lat. - 12°	
Greenwich No. 808.		Greenwich No. 811.		Greenwich No. 811.		Greenwich No. 811.		Greenwich No. 812.	
1882. August 4.		1882. August 12.		1882. August 14.		1882. August 14.		1882. August 14.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
(3) 5035·9	(6) 5218·7	(6) 5135·8	(6) 5426	(6) 5133·8	(6) 5426	(6) 5133·8	(6) 5426	(6) 5133·8	(5) 5459
(4) 5038·9	(5) 5426	(5) 5137·8	(1) 5671	(5) 5135·8	(1) 5671	(5) 5135·8	(1) 5671	(5) 5135·8	(6) 5460
(1) 5040·1	(4) 5459	(4) 5156·0	(2) 5672	(4) 5156·0	(2) 5672	(4) 5156·0	(2) 5672	(4) 5137·8	(1) 5671
(2) 5041·2	(1) 5671	(3) 5157·2	(3) 5726	(3) 5159·5	(3) 5726	(3) 5159·5	(3) 5726	(3) 5139·4	(2) 5672
(5) 5147	(2) 5672	(2) 5159·5	(4) 5730	(2) 5160·4	(4) 5730	(2) 5160·4	(4) 5730	(2) 5156·0	(3) 5726·5
	(3) 5736·5	(1) 5162·2	(5) 5735	(1) 5162·2	(5) 5734·5	(1) 5162·2	(5) 5734·5	(1) 5162·2	(4) 5730
Lat. - 12°		Lat. - 20°		Lat. - 19°		Lat. - 19°		Lat. - 16°	

Greenwich No. 811.		Greenwich No. 811.		Greenwich No. 830.		Greenwich No. 838.		Greenwich No. 838.	
1882. August 15.		1882. August 15.		1882. September 8.		1882. September 22.		1882. September 25.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
(6) 5132	(6) 5218·7	(6) 5132	(6) 5218·7	(6) 5137·8	(5) 5426	Cloudy.	(1) 5426	(4) 5145·7	(5) 5459
(5) 5133·8	(5) 5426	(5) 5133·8	(5) 5426	(5) 5139·4	(6) 5459		(6) 5489	(3) 5149	(6) 5460
(4) 5135·8	(3) 5459	(4) 5135·8	(3) 5459	(4) 5145·7	(3) 5671		(4) 5626·0	(1) 5156	(3) 5671
(3) 5137·8	(4) 5460	(3) 5137·8	(4) 5460	(3) 5149	(4) 5672		(4) 5627·5	(2) 5160·4	(4) 5672
(1) 5148·8	(1) 5671	(1) 5148·8	(1) 5671	(2) 5156	(1) 5726·5		(1) 5671		(1) 5726·5
(2) 5156·0	(2) 5672	(2) 5156·0	(2) 5672	(1) 5162·2	(2) 5730		(3) 5672		(2) 5730
Lat. + 19°		Lat. + 20°		Lat. + 20°		Lat. + 11°		Lat. + 12°	
Greenwich No. 849.		Greenwich No. 845.		Greenwich No. 846.		Greenwich No. 847.		Greenwich No. 848.	
1882. September 28.		1882. September 28.		1882. September 28.		1882. September 28.		1882. September 28.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
(5) 5133·8	(6) 5426	(5) 5133·8	(6) 5426	(5) 5133·8	(6) 5426	(5) 5133·8	(6) 5426	(5) 5133·8	(6) 5426
(6) 5135·8	(5) 5459	(6) 5135·8	(5) 5459	(6) 5135·8	(5) 5459	(6) 5135·8	(5) 5459	(6) 5135·8	(5) 5459
(4) 5137·8	(3) 5671	(4) 5137·8	(3) 5671	(4) 5137·8	(3) 5671	(4) 5137·8	(3) 5671	(4) 5137·8	(3) 5671
(3) 5156	(4) 5672	(3) 5156	(4) 5672	(3) 5156	(4) 5672	(3) 5156	(4) 5672	(3) 5156	(4) 5672
(2) 5159·5	(2) 5736·5	(2) 5159·5	(2) 5736·5	(2) 5159·5	(2) 5736·5	(2) 5159·5	(2) 5736·5	(2) 5159·5	(2) 5736·5
(1) 5162·2	(1) 5747	(1) 5162·2	(1) 5747	(1) 5162·2	(1) 5747	(1) 5162·2	(1) 5747	(1) 5162	(1) 5747
Lat. + 7°		Lat. + 2°		Lat. - 22°		Lat. + 19°		Lat. - 22°	
Greenwich No. 846.		Greenwich No. 861.		Greenwich No. 862.		Greenwich No. 868.		Greenwich No. 868.	
1882. October 2.		1882. October 20.		1882. October 23.		1882. October 23.		1882. October 31.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
(5) 5133·8	(1) 5426	(6) 5149·5	(2) 5447·3	(4) 5133·8	(3) 5671	(4) 5133·8	(3) 5671	(5) 5133·8	(6) 5426·0
(6) 5135·8	(2) 5459	(4) 5156·0	(1) 5459	(5) 5135·8	(4) 5672	(5) 5135·8	(4) 5672	(6) 5135·8	(5) 5559
(4) 5137·8	(3) 5671	(5) 5157·2	(3) 5671	(2) 5159·5	(1) 5726·5	(2) 5159·5	(1) 5726·5	(4) 5137·8	(3) 5627·5
(3) 5156	(4) 5672	(2) 5159·5	(4) 5672	(6) 5160	(2) 5730	(6) 5160	(2) 5730	(3) 5156	(4) 5660
(2) 5159	(5) 5736·5	(3) 5160·4	(5) 5726·5	(3) 5161·6		(3) 5161·6		(2) 5159	(2) 5671·0
(1) 5162·2	(6) 5747	(1) 5162·2	(6) 5730	(1) 5162·2		(1) 5162·2		(1) 5162·2	(1) 5672·0
Lat. - 22°		Lat. + 15°		Lat. + 11°		Lat. - 23°		Lat. - 23°	

Greenwich No. 868.		Greenwich No. 868.		Greenwich No. 870.		Greenwich No. 875.		Greenwich No. 876.	
1882. November 2.		1882. November 3.		1882. November 3.		1882. November 4.		1882. November 4.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
	5426.0	(5) 5085	(3) 5218.7	(4) 5089	(6) 5218.7	(5) 5133.8	(6) 5218.7	(2) 5133.8	(6) 5218.7
	5459	(4) 5087	(1) 5671	(5) 5112.1 d	(1) 5671	(4) 5135.8	(1) 5671	(1) 5135.8	(1) 5671
	5726.5	(2) 5133.8	(2) 5672	(1) 5145.7	(2) 5672	(6) 5137.8	(2) 5672	(3) 5137.8	(2) 5672
	5730	(1) 5135.8	(6) 5726.5	(2) 5149	(3) 5726.5	(1) 5145.7	(3) 5726.5	(4) 5156	(3) 5726.5
	5736.5	(3) 5137.8	(5) 5730	(3) 5156	(4) 5730	(2) 5149	(4) 5730	(5) 5159	(4) 5730
	5742	(6) 5162.2	(4) 5736.5		(5) 5736.5	(3) 5156	(5) 5736.5	(6) 5162.2	(5) 5736.5
		5156.0	5426						
		5159.5	5459						
Lat. - 22°		Lat. - 22°		Lat. + 16°		Lat. - 10°		Lat. - 20°	
Greenwich No. 876.		Greenwich No. 875.		Greenwich No. 876.		Greenwich No. 877.		Greenwich No. 876.	
1882. November 6.		1882. November 6.		1882. November 8.		1882. November 8.		1882. November 10.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
(6) 5133.8	(6) 5218.7	(6) 5133.8	(6) 5426	(5) 5133.8	(6) 5489.5 d	(6) 5129.6	(6) 5489.5 d	(6) 5133.8	(6) 5426
(5) 5135.8	(1) 5671	(5) 5135.8	(5) 5459	(4) 5135.8	(1) 5671	(5) 5132	(1) 5671	(5) 5135.8	(1) 5671
(4) 5137.8	(2) 5672	(4) 5137.8	(1) 5671	(6) 5137.8	(2) 5672	(4) 5133.8	(2) 5672	(4) 5137.8	(2) 5672
(3) 5156	(3) 5726.5	(3) 5156	(2) 5672	(3) 5156	(3) 5726.5	(3) 5135.8	(3) 5726.5	(3) 5156.0	(3) 5726.5
(2) 5159	(4) 5730	(2) 5159.5	(3) 5726	(2) 5159.5	(4) 5730	(2) 5137.8	(4) 5730	(2) 5159.5	(4) 5730
(1) 5162.2	(5) 5736.5	(1) 5162.2	(4) 5730	(1) 5162.2	(5) 5736.5	(1) 5149	(5) 5736.5	(1) 5162.2	(5) 5736.5
Lat. - 19°		Lat. - 10°		Lat. - 20°		Lat. - 23°		Lat. - 19°	
Greenwich No. 877.		Greenwich No. 876.		Greenwich No. 877.		Greenwich No. 885.		Greenwich No. 885.	
1882. November 10.		1882. November 11.		1882. November 11.		1882. November 20.		1882. November 23.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
(6) 5133.8	(6) 5426	(6) 5133.8	(6) 5426	(6) 5133.8	(6) 5426	(6) 5133.8	(6) 5459	(4) 5112.1	(6) 5218.7
(5) 5135.8	(1) 5671	(5) 5135.8	(1) 5671	(5) 5135.8	(1) 5671	(5) 5135.8	(1) 5671	(5) Four between 5120 and 5150	(5) 5426
(4) 5137.8	(2) 5672	(4) 5137.8	(2) 5672	(4) 5137.8	(2) 5672	(4) 5137.8	(2) 5672	(3) 5156	(3) 5459
(3) 5156.0	(3) 5726.5	(3) 5156.0	(3) 5726.5	(3) 5156.0	(3) 5726.5	(3) 5156	(3) 5726.5	(3) 5156	(4) 5460
(2) 5159.5	(4) 5730	(2) 5159.5	(4) 5730	(2) 5159.5	(4) 5730	(2) 5159.5	(4) 5730	(2) 5159.5	(1) 5671
(1) 5162.2	(5) 5736.5	(1) 5162.2	(5) 5736.5	(1) 5162.2	(5) 5736.5	(1) 5162.2	(5) 5736.5	(1) 5162.2	(2) 5672
		5116							
Lat. - 21°		Lat. - 19°		Lat. - 24°		Lat. - 19°		Lat. - 19°	

Greenwich No. 894.		Greenwich No. 894.		Greenwich No. 890.		Greenwich No. 894.		Greenwich No. 914.	
1882. November 27.		1882. November 28.		1882. November 28.		1882. November 30.		1882. December 22.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
Three series of fine lines between 5083—5090. (3) 5133·8 (2) 5135·8 (1) 5137·8	(6) 5426 (5) 5459 (3) 5671 (4) 5672 (1) 5726·5 (2) 5730	Three series of fine lines between 5083—5090. (3) 5133·8 (2) 5135·8 (1) 5137·8	(4) 5296 to 5298 } group. (1) 5671 (2) 5672 (3) 5865·2	Three series of fine lines between 5083—5090. (3) 5133·8 (2) 5135·8 (1) 5137·8	(3) 5671 (4) 5672 (5) 5726·5 (6) 5730 (1) 5865·2 (2) 5867·5	Three series of fine lines between 5083—5090. (3) 5133·8 (2) 5135·8 (1) 5137·8	(6) 5459 (5) 5699 (4) 5702·6 (1) 5726·5 (2) 5730 (3) 5865·2	5077 to 5080 5082·3 5083·3	5200·8 to 5205·5
Lat. —9°		Lat. —8°		Lat. —24°		Lat. —7°		Lat. —15°	
Greenwich No. 920.		Greenwich No. 927.		Greenwich No. 927.		Greenwich No. 927.		Greenwich No. 930.	
1883. January 6.		1883. January 6.		1883. January 8.		1883. January 9.		1883. January 9.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
(5) 5129·6 (6) 5132·0 (4) 5133·8 (3) 5135·8 (2) 5137·8 (1) 5162·2	(2) 5218·7 (1) Triplet more refrangible than 5226. (5) 5426 (6) 5459 (3) 5671 (4) 5672	Two bands between $\lambda\lambda$ 511 and 515. Three bands between $\lambda\lambda$ 515 and 521. (5) 5426 (6) 5459 (1) 5671 (2) 5672 (3) 5726 (4) 5730	(5) 5426 (6) 5459 (1) 5671 (2) 5672 (3) 5726 (4) 5730	(6) 5134 (5) 5135·8 (4) 5137·8 (3) 5151 (2) 5156 (1) 5162	(5) Triplet more refrangible than 5226. (1) 5671 (2) 5672 (3) 5726 (4) 5730	(5) 5133·8 (6) 5135·8 (4) 5137·8 (2) 5156 (3) 5159 (1) 5162·2	(5) 5459 (6) 5460 (1) 5671 (2) 5672 (3) 5723 (4) 5730	(5) 5133·8 (6) 5135·8 (4) 5137·8 (3) 5156 (2) 5159 (1) 5162·2	(6) 5218·7 (5) 5459 (1) 5671 (2) 5672 (3) 5723 (4) 5730
Lat. —14°		Lat. —18°		Lat. —18°		Lat. —19°		Lat. +5°	
Greenwich No. 979.		Greenwich No. 978.		Greenwich No. 978.		Greenwich No. 987.		Greenwich No. 987.	
1883. March 12.		1883. March 13.		1883. March 14.		1883. April 3.		1883. April 4.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5149 5156 5159·5 5162·2	5671 5672 5726·5 5730 5736·5 5738·5		5176 5238 5331 5536·2 5698·5 5701·4	5149·2 5156 5157·2 5159·5 5160·4 5162·2	5671 5672 5736·5 5765 5824 5855·2	5156 5159·5 5162	5536 5702·6 5736·5 5742 5777·5 5813·5	4909·5 4910 5149·8 5156 5159·5 5162·2	5536·2 5702·5 5736·5 5742 5777·5 5814
Lat. —19°		Lat. —13°		Lat. —13°		Lat. +14°		Lat. +14°	

Greenwich No. 987.		Greenwich No. 987.		Greenwich No. 990.		Greenwich No. 1008.		Greenwich No. 1027.	
1883. April 5.		1883. April 6.		1883. April 16.		1883. April 26.		1883. May 16.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
4909.5	5536.2	5137.8	5426.0	5132.8	5426	5137.8	5701.4	5125.6	5699
4910	5702.5	5142.8	5669.5	5137.8	5627.5	5146.5	5728	5135.8	5703
5149.8	5736.5	5149.8	5677.5	5156	5669.5	5149	5742	5137.8	5731.8
5156	5742	5156	5765.0	5158.5	5670.5	5156	5758.5	5156	5736.5
5159.5	5777.5	5159.5	5772.5	5159.5	5736.5	5159.5	5765	5159.5	5742
5162.2	5814	5162.2	5776.5	5162.2	5742	5162.2	5865	5162.2	5777.5
									5866
Lat. - 14°		Lat. + 13°		Lat. - 22°		Lat. + 8°		Lat. - 22°	
Greenwich No. 1027.		Greenwich No. 1027.		Greenwich No. 1039.		Greenwich No. 1039.		Greenwich No. 1040.	
1883. May 17.		1883. May 18.		1883. May 31.		1883. June 1.		1883. June 2.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5137.8	5170.5	4865	5460	5137.8	5259.5	5137.8	5259.5		5728
5142.8	5460	5136.5	5461	5142.8	5697	5142.8	5697		5729.5
5146	5461	5137.8	5699	5149	5736.5	5149	5736.5		5736.5
5149	5699	5145.7	5736.5	5156	5738	5156	5738		5763.5
5156	5743	5149	5738	5159.5	5742	5159.5	5742		5765
5159.5	5742	5156	5742		5867.5		5867.5		5867.5
	5866		5867.5						
Lat. - 22°		Lat. - 22°		Lat. + 14°		Lat. + 14°		Lat. - 6°	
Greenwich No. 1040.		Greenwich No. 1040.		Greenwich No. 1040.		Greenwich No. 1046.		Greenwich No. 1052.	
1883. June 4.		1883. June 5.		1883. June 6.		1883. June 12.		1883. June 20.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5061.4	5238.0	5061.4	5723	5061.4	5723	5142.8	5259.5	5127	5697
5062.8	5426.2	5062.8	5727.5	5062.8	5727.5	5149.8	5697	5137.8	5699
5137.8	5460	5143.6	5734.5	5143.6	5734.5	5156	5736.5	5149.8	5736.5
5149	5489	5149	5736.5	5149	5736.5	5159.5	5738	5156	5738
5156	5736.5	5159.5	5738	5159.5	5738	5162.2	5742.5	5159.5	5742.5
5159.5	5742.5	5162.2	5742.5	5162.2	5742.5		5867.5	5162.2	5867.5
Lat. - 9°		Lat. - 9°		Lat. - 9°		Lat. - 23°		Lat. - 26°	

Greenwich No. 1056.		Greenwich No. 1056.		Greenwich No. 1062.		Greenwich No. 1062.		Greenwich No. 1062.	
1883. June 22.		1883. June 23.		1883. July 2.		1883. July 3.		1883. July 4.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5137·8	5697	5137·8	5733	5137·8	5462·5	5149	5423·5	5137·8	5669·5
5142·8	5730·5	5149	5736·5	5142·8	5489	5156	5671·5	5142·8	5670·5
5149·8	5742·5	5156	5738	5149·8	5489·5	5159·5	5672	5149	5736·5
5156	5777·5	5159·5	5745	5156	5671		5736·5	5156	5744·5
5159·5	5814·1		5748	5159·5	5672		5742·5	5159	5747
5162·2	5867·5		5867·5	5162·2	5736·5		5867·5	5162·2	5867·5
					5742·5				
Lat. - 10°		Lat. - 11°		Lat. + 11°		Lat. + 11°		Lat. + 11°	
Greenwich No. 1056.		Greenwich No. 1067.		Greenwich No. 106		Greenwich No. 1080.		Greenwich No. 1086.	
1883. July 4.		1883. July 11.		1883. July 13.		1883. July 23.		1883. July 24.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5137·8	5669·5	5137·8	5671	5137·8	5671	5107	5426	5112·1	5489
5142·8	5670·5	5142·8	5672	5142·8	5672	5133·8	5536·2	5116	5538 d
5149	5736·5	5149	5735·6	5149	5735·6	5135·8	5671·	5135·8	5736·5
5156	5747	5156	5742·5	5156	5742·5	5149	5672·	5137·8	5742·5
5159	5744·5	5159·5	5744·5	5159·5	5744·5	5156	5736·5	5149·8	5744·5
5162·2	5867·5	5162·2	5867·5	5162·2	5867·5	5159·5	5742·5	5156·	
Lat. - 22°		Lat. - 26°		Lat. - 26°		Lat. - 10°		Lat. + 9°	
Greenwich No. 1080.		Greenwich No. 1094.		Greenwich No. 1094.		Greenwich No. 1098.		Greenwich No. 1098.	
1883. July 31.		1883. August 13.		1883. August 14.		1883. August 18.		1883. August 20.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5112·1	5742·5	5061	5627	5135·8	5626·5	5135·8	5626	5135·8	5671
5116	5744·5	5137	5671	5137·8	5671	5137·8	5728	5137·8	5672
5135·8	5817	5142·8	5672	5142·8	5672	5142·8	5738·5	5142·8	5736
5137·8	5821	5149·5	5728	5149	5728	5149	5742·5	5149	5742·5
5149	5886·5	5156	5865·1	5156	5865·1	5156	5865·1	5156	5865·1
5156	5887·5	5159·5	5865·5	5159·5	5866	5159·5	5866	5159·5	5866
Lat. - 14°		Lat. - 10°		Lat. - 10°		Lat. - 16°		Lat. - 17°	

Greenwich No. 1098.		Greenwich No. 1103.		Greenwich No. 1103.		Greenwich No. 1103.		Greenwich No. 1107.	
1883. August 21.		1883. August 24.		1883. August 25.		1883. August 28.		1883. August 30.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5135·8	5671	5137·8	5719	5137·8	5671	5135·8	5734·5	5133·8	5671
5137·8	5672	5142·8	5723	5142·8	5672	5137·8	5736·5	5135·8	5672
5142·8	5736	5149	5736·5	5149	5719	5142·8	5738	5137·8	5726·5
5149	5742·5	5156	5738	5156	5723	5155·2	5742·5	5156·0	5730
5156	5865·1	5159·5	5865·1	5159·5	5736·5	5159·5	5758·5	5159·5	5742·5
5159·5	5866	5162	5865·5	5162	5738	5160·4	5866	5160·4	5866
Lat. - 16°		Lat. - 15°		Lat. - 15°		Lat. - 15°		Lat. - 5°	
Greenwich No. 1108.		Greenwich No. 1108.		Greenwich No. 1108.		Greenwich No. 1114.		Greenwich No. 1114.	
1883. September 3.		1883. September 4.		1883. September 8.		1883. September 12.		1883. September 13.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5133·8	5671	5133·8	5671	5037·8	5671	5085	5735	5037·5	5671
5135·8	5672	5135·8	5672	5038·2	5672	5086	5736·5	5133·8	5735
5137·8	5726·5	5137·8	5726·5	5038·8	5726·5	5135·8	5742·5	5135·8	5736·5
5150·0	5730	5146·8	5730	5133·8	5730	5151·8	5794	5142·8	5742·5
5159·5	5736·5	5156·0	5736·5	5135·8	5761·9	5156·0	5866	5155·2	5756
5160·4	5743	5159·5	5866	5137·8	5866·0	5159·5	5869·5	5159·5	5866
		5162·2							
Lat. - 16°		Lat. - 15°		Lat. - 17°		Lat. - 22°		Lat. - 22°	
Greenwich No. 1114.		Greenwich No. 1114.		Greenwich No. 1114.		Greenwich No. 1114.		Greenwich No. 1114.	
1883. September 14.		1883. September 15.		1883. September 17.		1883. September 18.		1883. September 19.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5133·8	5426	5133·8	5426	4865·5	5736·5	5112	5535	5112	5351
5135·5	5460	5153·8	5460	5085·5	5742·5	5112·5	5535·5	5112·5	5357·5
5142·8	5736·5	5155·4	5736·5	5103·5	5736	5144·5	5736·5	5449	5541
5155·2	5742·5	5157·5	5742·5	5146	5819·5	5149	5742·5	5456	5864
5156·5	5756	5159·5	5756	5157·5	5864	5156	5756	5159	5865
5159·5	5866	5162·2	5866	5159·5	5866	5159	5819·5	5165·5	5866
Lat. - 22°		Lat. - 22°		Lat. - 22°		Lat. - 22°		Lat. - 22°	

Greenwich No. 1126.		Greenwich No. 1130.		Greenwich No. 1144.		Greenwich No. 1138.		Greenwich No. 1144.	
1883. October 2.		1883. October 6.		1883. October 15.		1883. October 15.		1883. October 17.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5135.5	5698.5	5133.5		5133.8	5426	5133.8	5426	5133.8	5426
5137	5702.5	5136		5136	5671	5136	5671	5136	5671
5139	5756	5138		5137.5	5672	5137.5	5672	5137.5	5672
5149	5760.2	5149		5156	5726	5156	5726	5156	5726
5156	5885.2	5156		5159	5730	5159	5730	5159	5730
5159	5886.5	5159		5162	5736.5	5162	5736.5	5162	5736.5
Lat. - 18°		Lat. - 6°		Lat. - 10°		Lat. + 11°		Lat. - 10°	
Greenwich No. 1144.		Greenwich No. 1144.		Greenwich No. 1187.		Greenwich No. 1188.		Greenwich No. 1191.	
1883. October 18.		1883. October 20.		1883. November 29.		1883. November 29.		1883. November 29.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5134	5426	5134	5671	No widening.		No widening.		No widening.	
5136	5671	5136	5672						
5137.5	5672	5137.8	5726.5						
5156	5726	5156	5730						
5159	5730	5159	5736.5						
5162	5736	5162	5866						
	5742								
Lat. - 10°		Lat. - 10°		Lat. - 11°		Lat. - 11°		Lat. - 10°	
Greenwich No. 1197.		Greenwich No. 1235b.		Greenwich No. 1255a.		Greenwich No. 1256.		Greenwich No. 1260a.	
1883. December 11.		1884. January 7.		1884. January 24.		1884. January 24.		1884. January 28.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5134	5671	5133.8	5671	5133.8	5426.0	5133.8	5426.0	5133.8	5218.5
5136	5672	5135.5	5672	5135.5	5460.0	5135.5	5460.0	5135.5	5224 t
5137.8	5726.5	5137.5	5726.5	5137.5	5671	5137.5	5671	5137.5	5726.5
5156	5730	5156	5730	5156.0	5672	5156.0	5672	5156.0	5730.0
5159		5159.5	5736	5159.5	5726.5	5159.5	5726.5	5159.5	
5162		5162	5745	5162.2	5730	5162.2	5730	5162.2	
					5736.5 5742.5		5736.5 5742.5		
Lat. - 14°		Lat. + 17°		Lat. - 9°		Lat. - 2°		Lat. + 6°	

Greenwich No. 1260.		Greenwich No. 1261a.		Greenwich No. 1264a.		Greenwich No. 1277a.		Greenwich No. 1277b.	
1884. January 23.		1884. January 28.		1884. January 28.		1884. February 13.		1884. February 18.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5133·8	5218·5	4870·2	5203·7	5133·8	5218·5	5133·8	5218·5	5133·8	5218·5
5135·5	5224	4871·2	5205·5	5135·5	5226·0	5135·5	5226	5135·5	5226
5137·5	5726·5	4890·0	5207·6	5137·5	5671·0	5137·5	5726	5137·5	and three more
5156·0	5730·0	4891·8	5268·5	5156·0	5672·0	5156	5739	5156	refrangible.
5159·5		4918·0	5269·5	5159·5	5726·5	5159·5		5159·5	5726
5162·2		4919·8	5327·2	5162·2	5739·0	5162·0		5162	5739
			5327·7						
Lat. + 6°		Lat. + 9°		Lat. + 10°		Lat. + 7°		Lat. + 8	
Greenwich No. 1284a.		Greenwich No. 1291a.		Greenwich No. 1288a.		Greenwich No. 1301a.		Greenwich No. 1293.	
1884. February 20.		1884. February 20.		1884. February 20.		1884. February 26.		1884. February 26.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5133·8	5218·5	5133·8	5218·5	5133·8	5460	5134·0	5218·5	5134·0	5218·5
5135·5	5226·0	5135·5	5226·0	5135·5	5461	5136·0	5226	5136·0	5226
5137·5	5671	5137·5	5671	5137·5	5671	5137·5	and three more	5137·5	and three more
5156·0	5672	5156·0	5672	5156	5672	5156·0	refrangible.	5156·0	refrangible.
5159·5	5726·0	5159·5	5726·0	5159·5	5726	5159·5	5426	5159·5	5726
5162·0	5730·0	5162·0	5730·0	5162·2	5739	5162·2	5460	5162·2	5739
	5736		5736						
	5742		5742						
Lat. + 9°		Lat. + 7°		Lat. + 14°		Lat. + 10°		Lat. + 7	
Greenwich No. 1301a.		Greenwich No. 1302a.		Greenwich No. 1301a.		Greenwich No. 1302.		Greenwich No. 1301	
1884. March 1.		1884. March 1.		1884. March 5.		1884. March 5.		1884. March 6.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5133·8	5209·5	5133·8	5218·5	5133·8	5426	5133·8	5426	5133·8	5426
5135·5	5218·5	5135·5	5226	5135·8	5459	5135·8	5459	5135·8	5459
5137·5	5426	5137·5	and three more	5137·5	5671	5137·5	5671	5137·5	5671
5156	5469	5156	refrangible.	5156·0	5672	5156·0	5672	5156·0	5672
5159	5726	5159	5726	5159·5	5726	5159·5	5726	5159·5	5726
5162·2	5730	5162·2	5730	5162·2	5730	5162·2	5730	5162·2	5730
Lat. + 10°		Lat. + 8		Lat. + 10		Lat. + 9°		Lat. + 10	

Greenwich No. 1302.		Greenwich No. 1308b.		Greenwich No. 1303a.		Greenwich No. 1324a.		Greenwich No. 1321.	
1884. March 6.		1884. March 6.		1884. March 6.		1884. March 15.		1884. March 15.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5133·8	5426	5133·8	5218·5	5133·8	5426	5134·0	5426	5134·0	5426
5135·8	5459	5135·8	5226	5135·8	5459	5135·5	5460	5135·5	5460
5137·5	5671	5137·5	and three more	5137·5	5671	5137·5	5726	5137·5	5671
5156·0	5672	5156·0	refrangible.	5156·0	5672	5156·0	5730	5156·0	5672
5159·5	5726	5159·5	5726	5159·5	5726	5159·5	5671	5159·5	5726
5162·2	5730	5162·2	5730	5162·2	5730	5162·2	5672	5162·2	5730
Lat. - 8°		Lat. - 10°		Lat. - 27°		Lat. + 7°		Lat. - 12°	
Greenwich No. 1314b.		Greenwich No. 1317b.		Greenwich No. 1317b.		Greenwich No. 1324a.		Greenwich No. 1314b.	
1884. March 15.		1884. March 15.		1884. March 17.		1884. March 17.		1884. March 17.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5134·0	5426	5134·0	5426	5133·8	5218·5	5133·8	5218·5	5133·8	5218·5
5135·5	5460	5135·5	5460	5135·5	5226	5135·5	5226·0	5135·5	5226·0
5137·5	5671	5137·5	5671	5137·5	and three more	5137·5	and three more	5137·5	and three more
5156·0	5672	5156·0	5672	5156·0	refrangible.	5156·0	refrangible.	5156·0	refrangible.
5159·5	5726	5159·5	5726	5159·5	5726·5	5159·5	5726·5	5159·5	5726·5
5162·2	5730	5162·2	5730	5162·0	5730·0	5162·0	5730·0	5162·0	5730
Lat. + 15°		Lat. - 12°		Lat. - 12°		Lat. + 7°		Lat. + 15°	
Greenwich No. 1310.		Greenwich No. 1324 a.		Greenwich No. 1323.		Greenwich No. 1320.		Greenwich No. 1330a.	
1884. March 17.		1884. March 19.		1884. March 19.		1884. March 19.		1884. March 19.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5133·8	5218·5	5133·8	5218·5	5133·8	5218·5	5133·8	5218·5	5133·8	5218·5
5135·5	5226·0	5135·5	5226·0	5135·5	5226·0	5135·5	5226·0	5135·5	5226·0
5137·5	and three more	5137·5	and three more	5137·5	and three more	5137·5	and three more	5137·5	and three more
5156·0	refrangible.	5156·0	refrangible.	5156·0	refrangible.	5156·0	refrangible.	5156·0	refrangible.
5159·5	5726·5	5159·5	5726·5	5159·5	5726·5	5159·5	5726·5	5159·5	5726·5
5162·0	5730	5162·0	5730	5162·0	5730	5162·0	5730	5162·0	5730
Lat. - 17°		Lat. + 7°		Lat. + 14°		Lat. - 10°		Lat. - 9°	

Greenwich No. 1324a.		Greenwich No. 1324a.		Greenwich No. 1330a.		Greenwich No. 1336a.		Greenwich No. 1324a.	
1884. March 20.		1884. March 21.		1884. March 24.		1884. March 24.		1884. March 24.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5133·8	5218·5	5133·8	5218·5	5133·8	5218·5	5133·8	5218·5	5133·8	5218·5
5135·5	5226·0	5135·5	5226·0	5135·8	5226·0	5135·5	5226·0	5135·8	5226·0
5137·5	and three more refrangible.	5137·5	and three more refrangible.	5137·5	and three more refrangible.	5137·5	and three more refrangible.	5137·5	and three more refrangible.
5156·0		5156·0		5156·0		5156·0		5156·0	
5159·5	5726·5	5159·5	5726·5	5159·5	5726·5	5159·5	5726·5	5159·5	5726·5
5162·0	5730	5162·0	5730	5162·0	5730	5162·0	5730	5162·0	5730
Lat. - 8°		Lat. + 8°		Lat. - 9°		Lat. - 11°		Lat. - 8°	
Greenwich No. 1343a.		Greenwich No. 1347.		Greenwich No. 1343.		Greenwich No. 1343b.		Greenwich No. 1343a.	
1884. April 2.		1884. April 2.		1884. April 2.		1884. April 3.		1884. April 4.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5133·8	5396	5133·8	5426		5496·5	5133·8	5396·0	5133·8	5426
5135·8	5404·8	5135·5	5459		5500·6	5135·5	5404·8	5135·5	5460
5137·5	5409·2	5137·5	5671		5505·2	5137·5	5409·2	5135·5	5671
5156·0	5414·5	5156·0	5672		5505·8	5156	5414·5	5156·0	5672
5159·5	5726	5159·5	5726		5513·2	5159·5	5726	5159·5	5726
5162·0	5730	5162·0	5730		5515·5	5162	5730	5162	5730
Lat. - 9°		Lat. - 11°		Lat. - 11°		Lat. - 12°		Lat. - 9°	
Greenwich No. 1351.		Greenwich No. 1351.		Greenwich No. 1350.		Greenwich No. 1347.		Greenwich No. 1351	
1884. April 4.		1884. April 8.		1884. April 8.		1884. April 8.		1884. April 9.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5133·8	5426	5133·8	5426·0	5133·8	5426	5133·8	5426	5133·8	5426
5135·5	5460	5135·5	5460	5135·5	5460	5135·5	5460	5135·5	5460
5137·5	5671	5137·8	5671	5137·8	5671	5137·8	5671	5137·8	5671
5156·0	5672	5156·0	5672	5156·0	5672	5156·0	5672	5156·0	5672
5159·5	5726	5159·5	5726	5159·5	5726	5159·5	5726	5159·5	5726
5162	5730	5162·0	5730	5162·0	5730	5162	5730	5162	5730
Lat. - 13°		Lat. - 13		Lat. - 18		Lat. - 12°		Lat. - 13°	

Greenwich No. 1350.		Greenwich No. 1347.		Greenwich No. 1371a.		Greenwich No. 1371b.		Greenwich No. 1369a.	
1884. April 9.		1884. April 9.		1884. April 26.		1884. April 26.		1884. April 26.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5133·8	5426	5133·8	5426	5133·8	5426	5133·8	5426	No widening.	
5135·5	5460	5135·5	5460	5135·5	5459	5135·5	5459		
5137·8	5671	5137·8	5671	5137·5	5671	5137·5	5671		
5156·0	5672	5156·0	5672	5156·0	5672	5156·0	5672		
5159·5	5726	5159·5	5726	5159·5	5726	5159·5	5726		
5162	5730	5162	5730	5162·0	5730	5162·0	5730		
Lat. - 17°		Lat. - 11°		Lat. - 10°		Lat. - 15°		Lat. - 14°	
Greenwich No. 1371a.		Greenwich No. 1373.		Greenwich No. 1373.		Greenwich No. 1373.		Greenwich No. 1376a.	
1884. April 30.		1884. April 30.		1884. May 5.		1884. May 6.		1884. May 10.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5133·8	5426	5133·8	5426	5133·8	5426	5133·8	5426	5133·8	5218·5
5135·5	5459	5135·5	5459	5135·5	5459	5135·5	5459	5135·5	5426·0
5137·8	5671	5137·5	5671	5137·5	5671	5137·5	5671	5137·5	5671
5156·0	5672	5156·0	5672	5156·0	5672	5156·0	5672	5156·0	5672
5159·5	5726	5159·5	5726	5159·5	5726	5159·5	5726	5159·5	5726
5162·0	5730	5162·0	5730	5162·0	5730	5162·0	5730	5162·0	5730
							5736 5742		
Lat. - 10°		Lat. - 15°		Lat. - 16°		Lat. - 17°		Lat. + 9°	
Greenwich No. 1381a.		Greenwich No. 1381a.		Greenwich No. 1376a.		Greenwich No. 1388a.		Greenwich No. 1389.	
1884. May 10.		1884. May 12.		1884. May 12.		1884. May 21.		1884. May 21.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5133·8	5218·5	5133·8	5426	5133·8	5426	5133·8	5426·0	5133·0	5426·0
5135·5	5426	5135·5	5459	5135·5	5459	5135·0	5459·0	5135·0	5459·0
5137·5	5459	5137·5	5671	5137·5	5671	5137·5	5671·0	5137·5	5671·0
5156·0	5671	5156	5672	5156	5672	5156·0	5672·0	5156·0	5672·0
5159·5	5672	5159·5	5726	5159·5	5726	5159·5	5726·0	5159·5	5726·0
5162·0	5736	5162	5730	5162	5730	5162·0	5730·0	5162·0	5730·0
	5863								
Lat. - 7°		Lat. - 8°		Lat. + 10°		Lat. - 2·4°		Lat. - 14°	

Greenwich No. 1393.	Greenwich No. 1388a.	Greenwich No. 1389.	Greenwich No. 1393.	Greenwich No. 1388a.
1884. May 21.	1884. May 22.	1884. May 22.	1884. May 22.	1884. May 23.
F—b b—D	F—b b—D	F—b b—D	F—b b—D	F—b b—D
5133.0 5426.0	5135.0 5426.0	5133.0 5426.0	5133.0 5426.0	5133.0 5426.0
5135.0 5459.0	5135.0 5459.0	5135.0 5459.0	5135.0 5459.0	5135.0 5459.0
5137.5 5671.0	5137.5 5671.0	5137.5 5671.0	5137.5 5671.0	5137.5 5671.0
5156.0 5672.0	5156.5 5672.0	5156.5 5672.0	5156.5 5672.0	5156.5 5672.0
5159.5 5726.0	5159.5 5726.0	5159.5 5726.0	5159.5 5726.0	5159.5 5726.0
5162.0 5730.0	5162.0 5730.0	5162.0 5730.0	5162.0 5730.0	5162.0 5730.0
Lat. - 10°	Lat. - 3°	Lat. - 14°	Lat. - 10°	Lat. - 3°
Greenwich No. 1389.	Greenwich No. 1393.	Greenwich No. 1393.	Greenwich No. 1393.	Greenwich No. 1409a.
1884. May 23.	1884. May 23.	1884. May 26.	1884. May 27.	1884. June 12.
F—b b—D	F—b b—D	F—b b—D	F—b b—D	F—b b—D
5133.0 5426.0	5133.0 5426.0	5134.0 5218.5	5133.0 5671	5133.0 5671
5135.0 5459.0	5135.0 5459.0	5135.0 5426.0	5135.0 5672	5135.0 5672
5137.5 5671.0	5137.5 5671.0	5137.5 5671.0	5137.5 5726	5137.5 5726
5156.5 5672.0	5156.5 5672.0	5156.0 5672.0	5156.0 5730	5156.0 5730
5159.5 5726.0	5159.5 5726.0	5159.5 5726.0	5159.5 5856.5	5159.5 5736
5162.0 5730.0	5162.0 5730.0	5160.0 5730.0	5162.0 5856.6	5162.0 5742
Lat. - 14°	Lat. - 9°	Lat. - 9°	Lat. - 10	Lat. - 6
Greenwich No. 1409a.	Greenwich No. 1409a.	Greenwich No. 1414.	Greenwich No. 1414.	Greenwich No. 1414.
1884. June 13.	1884. June 14.	1884. June 21.	1884. June 23.	1884. June 24.
F—b b—D	F—b b—D	F—b b—D	F—b b—D	F—b b—D
5133.0 5671	5133.0 5671	5134.0 5218.5	5134.0 5218.5	5134.0 5218.5
5135.0 5672	5135.0 5672	5135.0 5426.0	5135.0 5426.0	5135.0 5426.0
5137.5 5726	5137.5 5726	5137.5 5671.0	5137.5 5671	5137.5 5671
5156.0 5730	5156.0 5730	5156.0 5672.0	5156.0 5672	5156.0 5672
5159.5 5736	5159.5 5736	5159.5 5726.0	5159.5 5726	5159.5 5726
5162.0 5742	5162.0 5742	5162.0 5730.0	5162.0 5732	5162.0 5730
Lat. - 6°	Lat. - 6°	Lat. - 9°	Lat. - 9	Lat. - 9°

Greenwich No. 1419a.		Greenwich No. 1420.		Greenwich No. 1421.		Greenwich No. 1419a.		Greenwich No. 1420.	
1884. June 30.		1884. June 30.		1884. June 30.		1884. July 1.		1884. July 1.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5134·0	5426	5134·0	5426	5134·0	5426	5134·0	5426	5134·0	5419·5
5135·0	5459	5135·0	5459	5135·0	5459	5135·0	5459	5135·0	5459
5137·5	5671	5137·5	5671	5137·5	5671	5137·5	5671	5137·5	5726
5156·0	5672	5156·0	5672	5156·0	5672	5156·0	5672	5156·0	5730
5159·5	5726	5159·5	5726	5159·5	5726	5159·5	5726	5159·5	5736·5
5162	5730	5162	5730	5162	5730	5162·	5730	5162	5743
Lat. - 12°		Lat. + 9°		Lat. + 13°		Lat. - 13°		Lat. + 9°	
Greenwich No. 1419a.		Greenwich No. 1420.		Greenwich No. 1424a.		Greenwich No. 1421.		Greenwich No. 1419a.	
1884. July 2.		1884. July 2.		1884. July 2.		1884. July 2.		1884. July 3.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5134·5	5426	5134·5	5459	5134·5	5426	5134·5	5459	5134·5	5426
5135·5	5459	5135·5	5460	5135·5	5459	5135·5	5460	5135·5	5459
5137·5	5671	5137·5	5536·5	5137·5	5671	5137·5	5536·5	5137·5	5671
5156·0	5672	5156·0	5536·8	5156·0	5672	5156·0	5536·8	5156·0	5672
5159·5	5726	5159·5	5726	5159·5	5726	5159·5	5726	5159·5	5726
5162·2	5730	5162·2	5730	5162·2	5730	5162·2	5730	5162·2	5730
Lat. - 12°		Lat. + 9°		Lat. - 6°		Lat. + 13°		Lat. - 13°	
Greenwich No. 1420.		Greenwich No. 1421.		Greenwich No. 1422a.		Greenwich No. 1424a.		Greenwich No. 1419a.	
1884. July 3.		1884. July 3.		1884. July 3.		1884. July 3.		1884. July 4.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5134·5	5218·5	5134·5	5459	5134·5	5218·5	5134·5	5426	5134·5	5426
5135·5	5419·5	5135·5	5460	5135·5	5419·5	5135·5	5459	5135·5	5459
5137·5	5536·5	5137·5	5536·5	5137·5	5536·5	5137·5	5671	5137·5	5671
5156·0	5536·8	5156·0	5536·8	5156·0	5536·8	5156·0	5672	5156·0	5672
5159·5	5726·0	5159·5	5726	5159·5	5726·0	5159·5	5726	5159·5	5726
5162·2	5730·0	5162·2	5730	5162·2	5730·0	5162·0	5730	5162·2	5730
Lat. + 9°		Lat. + 13°		Lat. + 10°		Lat. - 6°		Lat. - 13·1°	

Greenwich No. 1422a.		Greenwich No. 1420.		Greenwich No. 1424a.		Greenwich No. 1419a.		Greenwich No. 1427.	
1884. July 4.		1884. July 4.		1884. July 4.		1884. July 8.		1884. July 14.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5134.5	5426	5134.5	5426	5134.5	5426	5133.8	5426	5133.8	5426
5135.5	5459	5135.5	5459	5135.5	5459	5135	5459	5135	5459
5137.5	5671	5137.5	5671	5137.5	5671	5137.5	5671	5137.5	5671
5156.0	5672	5156.0	5672	5156.0	5672	5156	5672	5156	5672
5159.5	5726	5159.5	5726	5159.5	5726	5159.5	5726	5159.5	5726
5162.2	5730	5162.2	5730	5162.2	5730	5162	5730	5162	5730
Lat. + 10°		Lat. + 9°		Lat. - 6°		Lat. - 14°		Lat. + 12°	
Greenwich No. 1427.		Greenwich No. 1444a.		Greenwich No. 1444b.		Greenwich No. 1441a.		Greenwich No. 1444a.	
1884. July 18.		1884. August 1.		1884. August 1.		1884. August 1.		1884. August 2.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5133.8	5426	5134.0	5426	5134.0	5426	5134.0	5426	5134.0	5426
5135.0	5459	5136.0	5459	5136.0	5459	5136.0	5459	5136.0	5459
5137.5	5671	5137.5	5671	5137.5	5671	5137.5	5671	5137.5	5671
5156.0	5672	5156.0	5672	5156.0	5672	5156.0	5672	5156.0	5672
5159.5	5726	5159.5	5726	5159.5	5726	5159.5	5726	5159.5	5726
5162.0	5730	5162	5730	5162	5730	5162	5730	5162	5730
Lat. - 12°		Lat. - 12°		Lat. - 11°		Lat. + 3°		Lat. - 11°	
Greenwich No. 1444b.		Greenwich No. 1441a.		Greenwich No. 1446a.		Greenwich No. 1444a.		Greenwich No. 1446a.	
1884. August 2.		1884. August 2.		1884. August 2.		1884. August 4.		1884. August 4.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5134.0	5426	5134.0	5426	5134.0	5426	5134.0	5426	5134.0	5426
5136.0	5459	5136.0	5459	5136.0	5459	5136.0	5459	5136.0	5459
5137.5	5671	5137.5	5671	5137.5	5671	5137.5	5671	5137.5	5671
5156.0	5672	5156.0	5672	5156.0	5672	5156	5672	5156.0	5672
5159.5	5726	5159.5	5726	5159.5	5726	5159.5	5726	5159.5	5726
5162	5730	5162	5730	5162	5730	5162	5730	5162	5730
Lat. - 10°		Lat. - 3°		Lat. + 10°		Lat. - 11°		Lat. + 8°	

Greenwich No. 1446a.		Greenwich No. 1445.		Greenwich No. 1446a.		Greenwich No. 1446a.		Greenwich No. 1446a.	
1884. August 5.		1884. August 5.		1884. August 6.		1884. August 7.		1884. August 8.	
F—b	d—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5134.0	5426	5134.0	5426	5134.0	5426	5134.0	5426	5134.0	5426
5136.0	5459	5136.0	5459	5136.0	5459	5136.0	5459	5136.0	5459
5137.5	5671	5137.5	5671	5137.5	5671	5137.5	5671	5137.5	5671
5156.0	5672	5156.0	5672	5156.0	5672	5156.0	5672	5156.0	5672
5159.5	5726	5159.5	5726	5159.5	5726	5159.5	5726	5159.5	5726
5162	5730	5162	5730	5162	5730	5162	5730	5162	5730
Lat. + 8°		Lat. - 3°		Lat. + 8°		Lat. + 8°		Lat. + 7°	
Greenwich No. 1446a.		Greenwich No. 1453.		Greenwich No. 1453.		Greenwich No. 1452.		Greenwich No. 1452.	
1884. August 9.		1884. August 9.		1884. August 11.		1884. August 12.		1884. August 14.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5133	5426	5133	5426	5133	5426	5133	5426	5133	5426
5135	5459	5135	5459	5135	5459	5135	5459	5135	5459
5137.8	5671	5137.8	5671	5137.8	5671	5137.8	5671	5137.8	5671
5156	5672	5156	5672	5156	5672	5156	5672	5156	5672
5159	5726	5159	5726	5159	5726	5159	5726	5159	5726
5162	5730	5162	5730	5162	5730	5162	5730	5162	5730
Lat. + 7°		Lat. - 6°		Lat. - 6°		Lat. + 9°		Lat. + 7°	
Greenwich No. 1455a.		Greenwich No. 1453.		Greenwich No. 1455a.		Greenwich No. 1453.		Greenwich No. 1455a.	
1884. August 14.		1884. August 15.		1884. August 15.		1884. August 16.		1884. August 16.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5133	5426	5133	5426	5133	5426	5133	5426	5133	5426
5135	5459	5135	5459	5135	5459	5135	5459	5135	5459
5137.8	5671	5137.8	5671	5137.8	5671	5137.8	5671	5137.8	5671
5156	5672	5156	5672	5156	5672	5156	5672	5156	5672
5159	5726	5159	5726	5159	5726	5159	5726	5159	5726
5162	5730	5162	5730	5162	5730	5162	5730	5162	5730
Lat. - 4°		Lat. - 6°		Lat. - 4°		Lat. - 6°		Lat. - 3°	

Greenwich No. 1455a.		Greenwich No. 1482a.		Greenwich No. 1482b.		Greenwich No. 1480.		Greenwich No. 1482a.	
1884. August 20.		1884. September 10.		1884. September 10.		1884. September 10.		1884. September 11.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5133.5	5426	5135.5	5671	5135.5	5671	5136	5426	5135.5	5671
5135.5	5459	5137.5	5672	5137.5	5672	5137.5	5671	5137.5	5672
5137.5	5671	5149.8	5726	5149.8	5726	5139	5672	5149.8	5726
5156.0	5672	5156	5730	5156	5730	5156	5726	5156	5730
5159.5	5726	5159.5	5742.5	5159.5	5742.5	5159.5	5730	5159.5	5742.5
5162.2	5730	5162	5867.5	5162	5867.5	5162	5867.5	5162	5867.5
Lat. - 3°		Lat. + 6		Lat. + 7		Lat. + 14°		Lat. + 5°	
Greenwich No. 1482b.		Greenwich No. 1482a.		Greenwich No. 1482b.		Greenwich No. 1482a.		Greenwich No. 1482b.	
1884. September 11.		1884. September 12.		1884. September 12.		1884. September 13.		1884. September 14.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5135.5	5671	5135.5	5426	5062.4	5237.5	5135.5	5237.5	5062.4	5237.5
5137.5	5672	5137.5	5459	5062.8	5259.5	5137.5	5259.5	5062.8	5259.5
5149.8	5726	5149.8	5671	5149.8	5426	5149.8	5318.5	5149.8	5426
5156	5730	5156	5672	5156	5459	5156	5426	5156	5459
5159.5	5742.5	5159.5	5726	5159.5	5671	5159.5	5671	5159.5	5671
5162	5867.5	5162	5730	5162	5672	5162	5672	5162	5672
Lat. + 7°		Lat. + 5°		Lat. + 6.5°		Lat. + 5		Lat. + 7	
Greenwich No. 1480a.		Greenwich No. 1480b.		Greenwich No. 1480a.		Greenwich No. 1480b.		Greenwich No. 1485.	
1884. September 15.		1884. September 15.		1884. September 16.		1884. September 16.		1884. September 17.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5135.5	5218	5134	5426	5134	5426	5134	5426	4865.5	5255
5137.5	5237.5	5135.5	5671	5144.5	5459	5135.5	5726	5087	5726
5138	5426	5137.5	5672	5145.5	5621	5137.5	5730	5156	5730
5156	5459.5	5156	5742.5	5156	5622	5156	5742.5	5159.5	5865
5159.5	5671	5159.5	5744.5	5159.5	5670	5159.5	5744.5	5162	5866
5162	5672	5162	5867.5	5162	5671	5162	5867.5	5163	5867.5
Lat. + 13°		Lat. + 15°		Lat. + 13		Lat. + 15°		Lat. + 15°	

Greenwich No. 1485.		Greenwich No. 1486a.		Greenwich No. 1484b.		Greenwich No. 1485.		Greenwich No. 1486a.	
1884. September 18.		1884. September 18.		1884. September 18.		1884. September 19.		1884. September 20.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5134.0	5218.5	5134.0	5218.5	5134.0	5218.5	5134.0	5218.5	5134	5459
5136	5426.0	5136.0	5426.0	5136.0	5671	5136.0	5426	5136	5671
5137.5	5721	5137.5	5721	5137.5	5672	5137.5	5721	5137.5	5672
5156.0	5736	5156.0	5736	5159.5	5726	5156.0	5736	5159.5	5726
5159.5	5746	5159.5	5746	5160	5730	5159.5	5746	5160	5730
5162	5870	5162	5870	5162	5870	5162	5870	5162	5870
Lat. - 13°		Lat. + 15°		Lat. + 5°		Lat. - 16°		Lat. + 15°	
Greenwich No. 1486a.		Greenwich No. 1486a.		Greenwich No. 1497a.		Greenwich No. 1501a.		Greenwich No. 1501a.	
1884. September 22.		1884. September 23.		1884. September 30.		1884. October 3.		1884. October 4.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5135	5426	5135	5426	5112	5726	5133.5	5671	5133.5	5671
5137.5	5459	5137.5	5459	5117.5	5730	5136.0	5672	5135.8	5672
5159.5	5671	5159.5	5671	5159.5		5159.5	5726	5159.5	5726
5160	5672	5160	5672	5160		5160	5730	5160	5730
5162	5726	5162	5726	5162		5162	5866.0	5162	5866.0
5163	5730	5163	5730	5163		5163	5876.5	5163	5876.5
Lat. + 15°		Lat. + 15°		Lat. - 13°		Lat. - 15°		Lat. + 15°	
Greenwich No. 1501a.		Greenwich No. 1501.		Greenwich No. 1516a.		Greenwich No. 1516b.		Greenwich No. 1520a.	
1884. October 8.		1884. October 13.		1884. October 22.		1884. October 22.		1884. October 29.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5134	5426	5136	5220	5133.0	5419.5	5133.0	5419.5	5133.0	5426
5136	5427	5137.5	5226.5	5135.0	5726	5135.0	5726	5135.0	5459
5159.5	5671	5156	5671	5137.5	5730	5137.5	5730	5137.5	5671
5160	5672	5159.5	5672	5156.0	5736	5156.0	5736	5156.0	5672
5162	5726	5160	5726	5159.5	5742	5159.5	5742	5159.5	5726
5163	5730	5162	5730	5162.2	5866	5162.2	5866	5162.2	5730
Lat. + 15°		Lat. + 14.7°		Lat. - 9°		Lat. - 9°		Lat. - 13°	

Greenwich No. 1520.		Greenwich No. 1526a.		Greenwich No. 1526b.		Greenwich No. 1520a.		Greenwich No. 1520a.	
1884. October 29.		1884. October 29.		1884. October 29.		1884. October 31.		1884. October 31.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5133.0	5426	5133.0	5426	5133.0	5426	5134.4	5671	5134.4	5671
5135.0	5459	5135.0	5459	5135.0	5459	5135.5	5672	5135.5	5672
5137.5	5671	5137.5	5671	5137.5	5671	5137.5	5726	5137.5	5726
5156.0	5672	5156.0	5672	5156.0	5672	5156.0	5730	5156.0	5730
5159.5	5726	5159.5	5726	5159.5	5726	5159.5	5736	5159.5	5736
5162.2	5730	5162.2	5730	5162.2	5730	5162.2	5742	5162.2	5742
Lat. - 17°		Lat. + 10°		Lat. + 10°		Lat. - 13°		Lat. - 13°	
Greenwich No. 1522b.		Greenwich No. 1526a.		Greenwich No. 1526a.		Greenwich No. 1526a.		Greenwich No. 1546.	
1884. October 31.		1884. October 31.		1884. November 3.		1884. November 5.		1884. November 29.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5134.4	5671	5134.4	5426	5134.4	5426	5134.4	5426	5134	5426
5135.5	5672	5135.5	5459	5135.5	5459	5135.5	5459	5135	5671
5137.5	5726	5137.5	5671	5137.5	5671	5137.5	5671	5137.5	5672
5156.0	5730	5156.0	5672	5156.0	5672	5156.0	5672	5156	5726
5159.5	5736	5159.5	5726	5159.5	5726	5159.5	5726	5159.5	5730
5162.2	5742	5162.2	5730	5162.2	5730	5162.2	5730	5162.2	5736
Lat. - 6		Lat. + 10°		Lat. + 11°		Lat. + 11°		Lat. + 6°	
Greenwich No. 1545a.		Greenwich No. 1546a.		Greenwich No. 1547b.		Greenwich No. 1556a.		Greenwich No. 1557.	
1884. November 29.		1884. December 4.		1884. December 4.		1884. December 16.		1884. December 17.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5035 group	5214.5	5134	5671	5134	5671	5134	5426	5077.9	5219.5
5037	5215.5	5135	5672	5135	5672	5135	5459	5078.9	5224 (Group of three lines.)
	5216.5	5137.5	5726	5137.5	5726	5137.5	5671	5079.5	
	5224 (Group of three lines.)	5156	5730	5156	5730	5156	5671	5080.5	
		5159.5	5736	5159.5	5736	5159.5	5726	5082.0	5671
		5162.2	5742	5162.2	5742	5162.2	5730	5083.0	5672
Lat. - 15		Lat. + 3°		Lat. + 13°		Lat. - 7°		Lat. - 21°	

Greenwich No. 1556a.		Greenwich No. 1558.		Greenwich No. 1556a.		Greenwich No. 1559.		Greenwich No. 1558.	
1884. December 17.		1884. December 17.		1884. December 19.		1884. December 19.		1884. December 19.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5134.0	5426	5077.9	5216.5	5134.0	5426	5134.0	5426	5134.0	5426
5135.0	5459	5078.9	5217.2	5135.5	5459	5135.5	5459	5135.5	5459
5137.5	5671	5079.5	5219.5	5137.5	5671	5137.5	5671	5137.5	5671
5156.0	5672	5080.5	5224 (group of three lines.)	5156.0	5672	5156.0	5672	5156.0	5672
5159.5	5726	5082.0		5159.5	5726	5159.5	5726	5159.5	5726
5162.2	5730	5083.0		5162.0	5730	5162.0	5730	5162.0	5730
Lat. - 7°		Lat. - 14°		Lat. - 7°		Lat. + 8°		Lat. - 13°	
Greenwich No. 1556a.		Greenwich No. 1558.		Greenwich No. 1561a.		Greenwich No. 1593a.		Greenwich No. 1593a.	
1884. December 22.		1884. December 22.		1884. December 22.		1885. February 12.		1885. February 18.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5134.0	5426	5134.0	5426	5134.0	5426	5134.0	5426	5134.0	5671
5135.5	5459	5135.5	5459	5135.5	5459	5135.5	5459	5135.0	5672
5137.5	5671	5137.5	5671	5137.5	5671	5137.5	5671	5137.5	5726
5156.0	5672	5156.0	5672	5156.0	5672	5156	5672	5156	5730
5159.5	5726	5159.5	5726	5159.5	5726	5159	5726	5159.5	5864.3
5162.0	5730	5162.0	5730	5162.0	5730	5162	5730	5162	5867.5
Lat. - 7°		Lat. - 13°		Lat. + 8°		Lat. + 4°		Lat. + 3.7°	
Greenwich No. 1593a.		Greenwich No. 1593a.		Greenwich No. 1596a.		Greenwich No. 1596a.		Greenwich No. 1601a.	
1885. February 19.		1885. February 20.		1885. February 20.		1885. February 23.		1885. February 23.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5134.0	5671	5134.0	5672	5134.0	5672	4885	5726	5134	5726
5135.0	5672	5135	5726	5135.0	5726	4907	5730	5135	5730
5137.5	5726	5137.5	5730	5137.5	5730	4909.5	5821.5	5137.5	5821.5
5156	5730	5156	5864.3	5156	5864.3	5156	5864	5156	5864
5159.5	5864.3	5159.5	5866	5159.5	5866	5159.5	5866	5159.5	5866
5162	5867.5	5162	5867.5	5162	5867.5	5162	5867.5	5162	5867.5
Lat. + 3.8°		Lat. + 3.8°		Lat. + 8.3°		Lat. + 8.0°		Lat. - 9.5°	

Greenwich No. 1622a.	Greenwich No. 1618a.	Greenwich No. 1622b.	Greenwich No. 1643a.	Greenwich No. 1643a.
1885. March 12.	1885. March 12.	1885. March 16.	1885. April 18.	1885. April 20.
F—b b—D	F—b b—D	F—b b—D	F—b b—D	F—b b—D
5133 5426	5133 5426	5133 5426	5134.0 5671	5143 5695
5135 5459	5135 5459	5135 5459	5135.0 5672	5149 5846.5
5137.5 5671	5137.5 5671	5137.5 5671	5137.5 5726	5156 5847.5
5156 5672	5156 5672	5156 5672	5156 5730	5159 5860
5159 5726	5159 5726	5159 5726	5159 5890	5160.5 5863
5162 5730	5162 5730	5162 5730	5162 5893	5162 5866
Lat. - 5.2°	Lat. - 14.6°	Lat. + 5.0°	Lat. - 4.7°	Lat. - 4.4°
Greenwich No. 1643a.	Greenwich No. 1643a.	Greenwich No. 1645a.	Greenwich No. 1647a.	Greenwich No. 1653a.
1885. April 21.	1885. April 22.	1885. April 22.	1885. April 28.	1885. April 28.
F—b b—D	F—b b—D	F—b b—D	F—b b—D	F—b b—D
5143 5695	5143 5671	5133.8 5426	5133.8 5426	5133.8 5426
5149 5846.5	5149 5672	5135.5 5460	5135.5 5726	5135.5 5726
5156 5847.5	5156 5695	5137.5 5671	5137.5 5730	5137.5 5730
5159 5860	5159 5846.5	5156 5672	5156 5860.2	5156 5860.2
5160.5 5863	5160.5 5847.5	5159.5 5726	5159.5 5865.1	5159.5 5865.1
5162 5866	5162 5860	5162 5730	5162 5866	5162 5866
Lat. - 4.5°	Lat. - 4.6°	Lat. - 15.3°	Lat. - 16.4°	Lat. - 9.9°
Greenwich No. 1645a.	Greenwich No. 1661a.	Greenwich No. 1658b.	Greenwich No. 1658b.	Greenwich No. 1661a.
1885. April 28.	1885. May 7.	1885. May 7.	1885. May 8.	1885. May 8.
F—b b—D	F—b b—D	F—b b—D	F—b b—D	F—b b—D
5133.8 5426	5146.8 5426	5133.8 5736	5133.7 5426	5133.8 5726
5135.5 5726	5148 5726	5135.8 5730	5135.8 5459	5135.8 5730
5137.5 5730	5149 5730	5136.0 5857.5	5138 5726	5136.0 5857.5
5156 5860.2	5149.5 5860	5159.5 5860	5146.8 5730	5159.5 5860
5159.5 5865.1	5159.5 5865.1	5161 5863	5155 5862	5161 5863
5162 5866	5162 5866	5162 5866	5162 5866	5162 5866
Lat. - 16.1°	Lat. - 14.3°	Lat. - 11.8°	Lat. + 12.1°	Lat. + 14.8°

Greenwich No. 1653a.		Greenwich No. 1661a.		Greenwich No. 1658b.		Greenwich No. 1664a.		Greenwich No. 1663a.	
1885. May 9.		1885. May 9.		1885. May 9.		1885. May 9.		1885. May 11.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5143	5199·4	5133·7	5426	5133·8	5726	5143	5671	5135·8	5193·5
5149	5190·6	5135·8	5459	5135·8	5730	5146·8	5672	5139	5259·5
5156	5412·2	5138	5726	5156·0	5857·5	5149	5726	5146·9	5726
5159·5	5413·2	5146·8	5730	5159·5	5860	5155	5730	5156	5730
5161	5866	5155	5862	5161	5863	5161	5862	5159	5862
5162	5884·5	5162	5866	5162	5866	5162	5866	5161	5866
Lat. - 10°6'		Lat. + 15°7'		Lat. + 12°5'		Lat. - 8°0'		Lat. + 14°6'	
Greenwich No. 1663a.		Greenwich No. 1672a.		Greenwich No. 1672a.		Greenwich No. 1678a.		Greenwich No. 1672a.	
1885. May 12.		1885. May 18.		1885. May 27.		1885. May 29.		1885. May 29.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5134	5426	5143	5695	5134	5426	5134	5224·2	5134	5224·2
5135	5460	5149	5846·5	5135·5	5460	5135·5	5224·8	5135·5	5224·8
5137·5	5671	5156	5847·5	5137·5	5671	5137·5	5426	5137·5	5426
5156	5672	5159	5860	5156	5672	5156	5460	5156	5460
5159·5	5726	5160·5	5863	5159·5	5730	5159·5	5726	5159·5	5726
5162	5730	5162	5866	5162	5866	5162	5730	5162	5730
Lat. + 14°5'		Lat. + 13°6'		Lat. + 13°8'		Lat. - 16°8'		Lat. + 14°0'	
Greenwich No. 1687c.		Greenwich No. 1687b.		Greenwich No. 1678a.		Greenwich No. 1690a.		Greenwich No. 1687c.	
1885. June 1.		1885. June 1.		1885. June 1.		1885. June 2.		1885. June 2.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5143	5426	5143	5426	5143	5218	5143	5426	5143	5426
5146·8	5459	5146·8	5459	5146·8	5237·5	5146·8	5459	5146·8	5459
5149	5726	5149	5726	5149	5426	5149	5726	5149	5726
5156	5730	5156	5730	5156	5459	5156	5730	5156	5730
5159	5862	5159	5862	5159	5671	5159	5886·5	5159	5886·5
5161	5866	5161	5866	5161	5672	5161	5887·5	5161	5887·5
Lat. - 11°5'		Lat. - 11°7'		Lat. - 16°2'		Lat. - 10°3'		Lat. - 11°6'	

Greenwich No. 1687b.		Greenwich No. 1690a.		Greenwich No. 1687c.		Greenwich No. 1687b.		Greenwich No. 1690a.	
1885. June 2.		1885. June 3.		1885. June 3.		1885. June 3.		1885. June 4.	
F — b	b — D	F — b	b — D	F — b	b — D	F — b	b — D	F — b	b — D
5143	5426	5143	5426	5143	5426	5143	5426	5143	5426
5146·8	5459	5146·8	5459	5146·8	5459	5146·8	5459	5146·8	5726
5149	5726	5149	5726	5149	5726	5149	5726	5149	5730
5156	5730	5156	5730	5156	5730	5156	5730	5156	5814
5159	5862	5159	5886·5	5159	5862	5159	5862	5159	5867
5161	5866	5161	5887·5	5161	5866	5161	5896	5161	5890·5
Lat. - 11·6°		Lat. - 10·7°		Lat. - 11·8°		Lat. - 11·8°		Lat. - 10·7°	
Greenwich No. 1687c.		Greenwich No. 1690a.		Greenwich No. 1687c.		Greenwich No. 1687b.		Greenwich No. 1690a.	
1885. June 4.		1885. June 5.		1885. June 5.		1885. June 5.		1885. June 10.	
F — b	b — D	F — b	b — D	F — b	b — D	F — b	b — D	F — b	b — D
5143	5426	5133·5	5724	5143	5426	5143	5426	5133·5	5426
5146·8	5459	5136·0	5726	5146·8	5459	5146·8	5459	5136	5726
5149	5726	5140·5	5730	5149	5726	5149	5726	5149	5730
5156	5730	5156	5814	5156	5730	5156	5730	5156	5814
5159	5862	5159	5867	5159	5862	5159	5862	5159	5867
5161	5866	5161	5890·5	5161	5866	5161	5866	5161	5890·5
Lat. - 11·6°		Lat. - 10·7°		Lat. - 11·3°		Lat. - 11·5°		Lat. - 14·3°	
Greenwich No. 1690a.		Greenwich No. 1694c.		Greenwich No. 1690a.		Greenwich No. 1694c.		Greenwich No. 1690a.	
1885. June 10.		1885. June 11.		1885. June 11.		1885. June 12.		1885. June 12.	
F — b	b — D	F — b	b — D	F — b	b — D	F — b	b — D	F — b	b — D
5133·5	5426	5133·5	5426	5133·5	5426	5133·5	5426	5133·5	5426
5136	5726	5136	5726	5136	5726	5136	5726	5136	5726
5149	5730	5149	5730	5149	5730	5149	5730	5149	5730
5156	5814	5156	5814	5156	5814	5156	5814	5156	5814
5159	5867	5159	5867	5159	5867	5159	5867	5159	5867
5161	5890·5	5161	5890·5	5161	5890·5	5161	5890·5	5161	5890·5
Lat. - 10·2°		Lat. - 11·7°		Lat. - 10·6°		Lat. - 14·5°		Lat. - 10·6°	

Greenwich No. 1694c.		Greenwich No. 1690a.		Greenwich No. 1694c.		Greenwich No. 1694b.		Greenwich No. 1699a.	
1885. June 13.		1885. June 13.		1885. June 15.		1885. June 15.		1885. June 15.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5133·5	5426	5133·5	5426	5133·5	5426	5133·5	5426	5133·5	5426
5136	5726	5136	5726	5136	5460	5136	5460	5136	5460
5149	5730	5149	5730	5137·5	5671	5137·5	5671	5149	5671
5156	5814	5156	5814	5156	5672	5156	5672	5156	5672
5159	5867	5159	5867	5159·5	5726	5159·5	5726	5159	5726
5161	5890·5	5161	5890·5	5162	5730	5162	5730	5161	5730
Lat. - 14·7°		Lat. - 11·0°		Lat. - 14·8°		Lat. - 14·5°		Lat. - 7·8°	
Greenwich No. 1706a.		Greenwich No. 1694c.		Greenwich No. 1706a.		Greenwich No. 1706a.		Greenwich No. 1706.	
1885. June 15.		1885. June 16.		1885. June 16.		1885. June 18.		1885. June 18.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5133·5	5426	5133·5	5426	5133·5	5426	5133·8	5209·5	5133·8	5209·5
5136	5459	5136	5460	5136	5460	5135·5	5219	5135·5	5219
5149	5671	5137·5	5671	5137·5	5671	5149	5224·2	5149	5224·2
5156	5672	5156	5672	5156	5672	5156	5224·8	5156	5224·8
5159	5726	5159·5	5726	5159·5	5726	5159	5255	5159	5255
5161	5730	5162	5730	5162	5730	5161	5255·8	5161	5255·8
Lat. + 10·0°		Lat. - 14·6°		Lat. + 9·8°		Lat. + 9·8°		Lat. + 12·4°	
Greenwich No. 1706a.		Greenwich No. 1710.		Greenwich No. 1710a.		Greenwich No. 1714d.		Greenwich No. 1714d.	
1885. June 24.		1885. June 27.		1885. July 1.		1885. July 3.		1885. July 4.	
E—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5101	5424	5133·9	5628	5133·9	5628	5133·9	5424	5156	5424
5138	5426	5135·9	5736	5135·9	5736	5135·9	5426	5159·5	5426
5149	5671	5137·8	5747·5	5137·8	5747·5	5137·8	5726	5162	5726
5156	5672	5149	5776·5	5149	5776·5	5156	5730		5730
5159	5726	5156·5	5865·2	5156·5	5865·2	5159·5	5865·2		5865·2
5161	5730	5159	5866	5159	5866	5162	5866		5866
Lat. + 10·0°		Lat. - 13·4°		Lat. - 11·2°		Lat. - 10·7°		Lat. - 10·9°	

Greenwich No. 1715b.		Greenwich No. 1715b.		Greenwich No. 1715.		Greenwich No. 1715.		Greenwich No. 1718a.	
1885. July 6.		1885. July 7.		1885. July 9.		1885. July 10.		1885. July 11.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5156	5424	5115.5	5461.0	5115.5	5461.0	5061.5	5461.0	5061.5	5671
5159.5	5426	5133.8	5473.0	5133.8	5473.0	5084.5	5475.0	5084.5	5672
5162	5726	5136.0	5726.0	5136.0	5726.0	5154	5726.0	5133.8	5726
	5730	5156	5730.0	5156	5730.0	5156	5730.0	5156	5730
	5865.2	5159.5	5865.2	5159.5	5865.2	5159.5	5865.2	5159.5	5865.2
	5866	5175.0	5866.0	5175.0	5866.0	5162	5866.0	5162	5866
Lat. - 18.3°		Lat. - 18.7°		Lat. - 18.8°		Lat. - 18.6°		Lat. - 7.7°	
Greenwich No. 1718a.		Greenwich No. 1718a.		Greenwich No. 1720b.		Greenwich No. 1718a.		Greenwich No. 1720b.	
1885. July 13.		1885. July 14.		1885. July 14.		1885. July 15.		1885. July 15.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5128.8	5679.4	5062	5698.5	5061	5259.5	5062	5698.5	5061	5259.5
5133.5	5735	5085	5701.5	5081.5	5393.6	5085	5701.5	5081.5	5393.6
5149.5	5742	5149.5	5722.5	5084	5484.5	5149.5	5722.5	5084	5484.5
5156	5865.5	5156	5735	5149.5	5669.7	5156	5735	5149.5	5669.7
5159.5	5874.0	5159.5	5742	5156	5670.3	5159.5	5742	5156	5670.3
5162	5878.5	5162	5878.5	5159.5	5878.5	5162	5878.5	5159.5	5878.5
Lat. - 8.0°		Lat. - 8.2°		Lat. + 10.2°		Lat. - 8.4°		Lat. + 9.9°	
Greenwich No. 1718a.		Greenwich No. 1720b.		Greenwich No. 1720b.		Greenwich No. 1728a.		Greenwich No. 1728a.	
1885. July 16.		1885. July 16.		1885. July 17.		1885. July 22.		1885. July 23.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5062	5698.5	5061	5259.5	5062	5698.5	5062	5459.5	5115.5	5425.3
5085	5701.5	5081.5	5393.6	5085	5701.5	5085	5702.0	5117.5	5459.5
5149.5	5722.5	5084	5484.5	5149.5	5722.5	5149.5	5722	5149.5	5722
5156	5735	5149.5	5669.7	5156	5735	5156	5735	5156	5735
5159.5	5742	5156	5670.3	5159.5	5742	5159.5	5741.5	5159.5	5741.5
5162	5878.5	5159.5	5878.5	5162	5878.5	5162	5866	5162	5777.5
Lat. - 8.1		Lat. + 9.7		Lat. + 9.3°		Lat. - 11.7°		Lat. - 11.6°	

Greenwich No. 1728a.		Greenwich No. 1728a.		Greenwich No. 1728a.		Greenwich No. 1728a.		Greenwich No. 1733b.	
1885. July 24.		1885. July 25.		1885. July 27.		1885. July 28.		1885. July 30.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5115·5	5425·3	5149·5	5425·3	5115·5	5259·5	5115·5	5259·5	5115·5	5259·3
5117·5	5459·5	5155	5459·5	5117·5	5425	5117·5	5425	5117·5	5459·5
5149·5	5722	5156	5670	5149·5	5459·5	5149·5	5459·5	5149·5	5726
5156	5735	5159·5	5671	5156	5728	5156	5728	5156	5730
5159·5	5741·5	5162	5735	5159·5	5735	5159·5	5735	5159	5865·2
5162	5777·5	5175	5741·5	5162	5741·5	5162	5741·5	5162·5	5866
Lat. - 11°9'		Lat. - 12°1'		Lat. - 11°8'		Lat. - 11°8.		Lat. - 22°0'	
Greenwich No. 1733b.		Greenwich No. 1737a.		Greenwich No. 1738a.		Greenwich No. 1738a.		Greenwich No. 1738a.	
1885. July 31.		1885. August 6.		1885. August 10.		1885. August 11.		1885. August 12.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5115·5	5259·3	5115·5		5133·8	5671	5133·8	5671	5133·8	5671
5117·5	5459·5	5117·5		5135·5	5972	5135·5	5672	5135·5	5672
5149·5	5726	5149·5		5149·5	5726	5149·5	5726	5149·5	5726
5156	5730	5156		5156	5730	5156	5730	5156	5730
5159	5865·2	5159		5159·5	5865·2	5159·5	5865·2	5159·5	5865·2
5162·5	5866	5162·5		5162	5866	5162	5866	5162	5866
Lat. - 21°9'		Lat. - 10°4'		Lat. - 11°4'		Lat. - 11°0'		Lat. - 11°1'	
Greenwich No. 1737a.		Greenwich No. 1738a.		Greenwich No. 1737a.		Greenwich No. 1738a.		Greenwich No. 1737a.	
1885. August 12.		1885. August 13.		1885. August 13.		1885. August 14.		1885. August 14.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5133·8	5671	5133·8	5671	5133·8	5671	5133·8	5671	5133·8	5259·3
5135·5	5672	5135·5	5672	5135·5	5672	5135·5	5672	5135·5	5459·5
5149·5	5726	5149·5	5726	5149·5	5726	5149·5	5726	5149·5	5726
5156	5730	5156	5730	5156	5730	5156	5730	5156	5730
5159·5	5865·2	5159·5	5865·2	5159·5	5865·2	5159·5	5865·2	5159·5	5742·5
5162	5866	5162	5866	5162	5866	5162	5866	5162	5867·5
Lat. - 11°3'		Lat. - 11°0'		Lat. - 11°1'		Lat. - 11°0'		Lat. - 11°0'	

Greenwich No. 1738a.		Greenwich No. 1737a.		Greenwich No. 1748.		Greenwich No. 1754a.		Greenwich No. 1754a.	
1885. August 15.		1885. August 15.		1885. August 17.		1885. August 24.		1885. August 25.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5133.8	5671	5133.8	5259.3	5135	5259.3	5135.5	5259.3	5135.5	5259.3
5133.5	5672	5135.5	5459.5	5137.5	5459.5	5136	5459.5	5136	5459.5
5149.5	5726	5149.5	5726	5149.5	5671	5143	5671	5143	5671
5156	5730	5156	5730	5156	5672	5156	5672	5156	5672
5159.5	5865.2	5159.5	5742.5	5159.5	5866	5159.5	5866	5159.5	5866
5162	5866	5162	5867.5	5162	5867.5	5162	5867.5	5162	5867.5
Lat. - 11°0		Lat. - 10°7		Lat. - 14°1		Lat. - 10°7		Lat. - 10°7	
Greenwich No. 1754a.		Greenwich No. 1754a.		Greenwich No. 1763.		Greenwich No. 1763.		Greenwich No. 1763.	
1885. August 26.		1885. August 29.		1885. September 8.		1885. September 9.		1885. September 15.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5135.5	5259.3	5137.5	5718	4971	5412.1	4971	5218	5133.8	5200.5
5136	5459.5	5139	5724	4972	5413.1	4972	5255.5	5135.5	5209.2
5143	5671	5149.5	5727.5	5149.5	5566.3	5149.5	5259.3	5149.5	5209.9
5156	5672	5156	5735	5156	5735	5156	5281.7	5156	5459.5
5159.5	5866	5159.5	5738	5159.5	5738	5159.5	5460.5	5159.5	5531.4
5162	5867.5	5162	5741.5	5162	5840	5162	5583.6	5162	5533.6
Lat. - 10°9		Lat. - 11°0		Lat. - 13°4		Lat. - 13°5		Lat. - 13°6	
Greenwich No. 1768.		Greenwich No. 1768.		Greenwich No. 1768.		Greenwich No. 1768.		Greenwich No. 1773a.	
1885. September 22.		1885. September 24.		1885. September 28.		1885. October 1.		1885. October 3.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5133.8	5299.9	5133.8	5299.9	5020	5209.2	4912.5	5300	5112.1	5223.8
5135.5	5434.6	5135.5	5434.6	5041.8	5259.5	5137.8	5393.6	5137.8	5224.2
5149.5	5435.5	5149.5	5435.5	5149.5	5279.5	5149.5	5521	5146	5224.6
5156	5459.5	5156	5459.5	5156	5300	5156	5735.5	5149.5	5425
5159.5	5821.8	5159.5	5821.8	5159.5	5536.4	5159.5	5738	5156	5521
5162	5839	5162	5839	5162	5545.5	5162	5741.5	5159.5	5670
Lat. - 7°0		Lat. - 7°2		Lat. - 7°8		Lat. - 7°7		Lat. - 15°9	

Greenwich No. 1773a.		Greenwich No. 1773a.		Greenwich No. 1806a.		Greenwich No. 1806a.		Greenwich No. 1806a.	
1885. October 7.		1885. October 9.		1885. December 11.		1885. December 15.		1885. December 16.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5061·5	5426	4964·5	5218·2	4910·5	5333·5	5092	5210	5092	5210
5062·5	5460·5	5061·5	5459·5	4913·2	5456	5094	5213	5094	5213
5112	5670	5062·5	5484	5149·5	5459·5	5095	5259·5	5095	5259·5
5115·3	5671	5084·5	5623·4	5156	5830·0	5149·5	5719	5149·5	5719
5117·3	5742	5101	5735	5159·5	5831·5	5156	5735	5156	5735
5119·3	5756	5159·5	5741·5	5162	5832	5159·5	5738	5159·5	5738
Lat. - 15·8°		Lat. - 16·1°		Lat. + 15·5°		Lat. + 15·4°		Lat. + 15·4°	
Greenwich No. 1853a.		Greenwich No. 1856a.		Greenwich No. 1864a.		Greenwich No. 1878a.		Greenwich No. 1878b.	
1886. March 8.		1886. March 24.		1886. April 6.		1886. May 3.		1886. May 3.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5061·5	5671	4900·3	5185·1	5133·8	5209·2	5133·8	5259·4	5062·8	5259·4
5084·5	5672	5141·5	5861·2	5135·5	5219	5135·5	5299·8	5133·8	5351
5133·8	5726	5156	5863	5137·8	5259·5	5143	5333	5135·5	5357·5
5156	5730	5159·5	5878·3	5156	5426	5156	5425·2	5156	5459·5
5159·5	5735	5162	5882·4	5159·5	5459·5	5159	5459·5	5159·5	5670
5162	5741·5		D ₁ & D ₂	5162		5162	5484	5162	5735·5
Lat. - 5·4°		Lat. + 5·1°		5171·1 Lat. - 5·5°		Lat. - 11·7°		Lat. - 11·3°	
Greenwich No. 1878a.		Greenwich No. 1884.		Greenwich No. 1884.		Greenwich No. 1884.		Greenwich No. 1891a.	
1886. May 4.		1886. May 27.		1886. May 28.		1886. June 1.		1886. June 4.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5133·8	5209·3	5135·5	5210	5135·5	5206·5	5133·8	5202·5	5133·8	5206·5
5141·2	5219	5137·5	5259·5	5137·5	5267·3	5135·5	5206·5	5135·5	5267·3
5156	5237·5	5156	5426	5156	5330·8	5137·5	5267·3	5137·5	5331
5159·5	5330·8	5159·5	5427	5159·5	5426	5156	5426	5156	5367·5
5162	5425·2	5162	5459·5	5162	5427	5159·5	5427	5159·5	5459·5
5171·1	5459·5	5172·2	5460·5		5459·5	5162	5459·5	5162	5460
Lat. - 11·6°		Lat. - 10·7°		5502·8 Lat. - 10·7°		Lat. - 10·5°		Lat. - 14·6°	

Greenwich No. 1894a.		Greenwich No. 1894a.		Greenwich No. 1897.		Greenwich No. 1901a.		Greenwich No. 1901a.	
1886. June 5.		1886. June 8.		1886. June 23.		1886. July 5.		1886. July 6.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5132	5267.3	5132	5426	5133.8	5202.5	5135.5	5281.7	5135.5	5259.5
5133.8	5408.6	5133.8	5428	5135.5	5206.5	5137.5	5365.2	5137.5	5365.2
5137.5	5426	5137.5	5457	5137.5	5248	5156	5368	5156	5368
5156	5459.5	5156	5459.5	5156	5299	5159.5	5426	5159.5	5426
5159.5	5460.5	5159.5	5460.5	5159.5	5426	5162	5459.5	5162	5447.3
5162	5502.8	5162	5463	5162	5459.5	5170	5484	5170	5484
Lat. - 14.8		Lat. - 14.9		Lat. - 11.7		Lat. - 15.3		Lat. - 15.3	
Greenwich No. 1906a.		Greenwich No. 1906a.		Greenwich No. 1910a.		Greenwich No. 1910a.		Greenwich No. 1923a.	
1886. July 20.		1886. July 21.		1886. July 28.		1886. August 3.		1886. September 17.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5133.8	5259.5	5133.8	5259.5	5133.8	5179.4	5133.8	5406	5112.2	5209.3
5135.5	5267.3	5135.5	5267.3	5135.5	5267.3	5135.5	5426	5119.9	5300
5137.5	5426	5137.5	5426	5137.5	5300	5137.5	5444.2	5123.2	5406.4
5156	5459.5	5156	5459.5	5156	5360.5	5156	5459.5	5156	5426
5159.5	5481	5159.5	5481	5159.5	5426	5159.5	5489	5159.5	5459.5
5162	5502.8	5162	5502.8	5162	5459.5	5162	5583.8	5162	5460.5
Lat. - 8.4		Lat. - 8.5		Lat. - 13.2		Lat. - 13.4		Lat. + 12.6	
Greenwich No. 1923b.		Greenwich No. 1923b.		Greenwich No. 1928.		Greenwich No. 1930 ^a _b		Greenwich No. 1930a.	
1886. September 18.		1886. September 20.		1886. September 22.		1886. October 1.		1886. October 2.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5112.2	5209.3	5112.2	5209.3	5006.4	5209.3	5041.5	5209.3	5044.5	5209.3
5119.9	5300	5119.9	5300	5043.2	5477.3	5112.2	5218	5112.2	5218
5123.2	5393.5	5126.5	5406.4	5061	5484.5	5119.9	5300	5119.9	5300
5156	5406.4	5156	5426	5062.5	5489	5123.2	5484.5	5123.2	5484.5
5159.5	5426	5159.5	5431.8	5112.2	5529.5	5133.5	5489	5133.5	5489
5162	5459.5	5162	5459.5	5117.5	5595.2	5135.5	5702.5	5135.5	5702.5
Lat. + 12.7		Lat. + 12.7		Lat. + 9.2		Lat. - 15.6		Lat. - 14.7	

Greenwich No. 1930a.		Greenwich No. 1936a.		Greenwich No. 1947, 1948.		Greenwich No. 1949a.		Greenwich No. 1949a.	
1886. October 5.		1886. October 29.		1887. January 20.		1887. January 25.		1887. January 26.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
4921·2	5209·3	5090·2	5209·3	(6) 5051	(6) 5209·3	(5) 5043·3	(2) 5199·5	(5) 5043·3	(1) 5209·3
5043·5	5218	5108·6	5227·2	(5) 5090·2	(1) 5403·2	(6) 5061·5	(1) 5209·3	(6) 5061·5	(2) 5300
5060·1	5224·2	5112·2	5333·7	(4) 5112·2	(2) 5404·7	(4) 5075·7	(4) 5368·9	(4) 5112·2	(5) 5368·9
5063	5224·6	5119·9	5406·4	(2) 5119·9	(3) 5476	(3) 5112·2	(5) 5372·5	(1) 5119·9	(6) 5372·5
5119·9	5393·5	5123·2	5425	(3) 5123·2	(4) 5496·3	(1) 5119·9	(6) 5406·4	(2) 5123·2	(4) 5406·4
5123·2	5513·3	5145·5	5459·5	(1) 5136·8	(5) 5588·8	(2) 5123·2	(3) 5431·8	(3) 5126·6	(3) 5583·7
Lat. - 16°0'		Lat. + 15°3'		Lat. - 17°5'		Lat. - 3°2'		Lat. - 3°2'	
Greenwich No. 1951a.		Greenwich No. 1949a.		Greenwich No. 1954a.		Greenwich No. 1958a.		Greenwich No. 1958b.	
1887. January 26.		1887. February 2.		1887. February 5.		1887. February 21.		1887. February 28.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
(5) 5043·3	(1) 5209·3	(6) 4961·8	(1) 5209·3	(1) 5071·7	(1) 5209·3	(6) 4979·4	(1) 5209·3	(4) 5006·4	(1) 5209·3
(6) 5061·5	(2) 5300·0	(5) 5043·2	(4) 5393·5	(2) 5074	(2) 5259·5	(5) 5043·2	(2) 5300	(5) 5109·9	(6) 5306·3
(4) 5112·2	(5) 5368·9	(4) 5112·2	(3) 5397·1	(5) 5112·2	(3) 5300	(4) 5112·2	(3) 5345	(1) 5112·2	(3) 5361·9
(1) 5119·9	(6) 5372·5	(1) 5119·9	(2) 5406·3	(4) 5119·9	(4) 5388·5	(1) 5123·2	(4) 5362	(2) 5123·2	(2) 5393·5
(2) 5123·2	(4) 5406·4	(2) 5123·2	(5) 5431·8	(6) 5123·2	(5) 5390·4	(2) 5126·5	(5) 5392·2	(3) 5141·8	(4) 5406·3
(3) 5126·6	(3) 5583·7	(3) 5126·5	(6) 5473·2	(3) 5136·8	(6) 5496·4	(3) 5136·8	(6) 5406·4	(6) 5161·4	(5) 5418
Lat. - 3°5'		Lat. - 3°3'		Lat. + 12°9'		Lat. + 11°3'		Lat. + 10°0'	
Greenwich No. 1962a.		Greenwich No. 1962a.		Greenwich No. 1962a.		Greenwich No. 1970a.		Greenwich No. 1970a.	
1887. March 19.		1887. March 21.		1887. March 22.		1887. April 19.		1887. April 20.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
(6) 5043·2	(5) 5287·3	(3) 5043·2	(6) 5335·9	(5) 4961·8	(2) 5393·5	(6) 4921·2	(1) 5209·3	(6) 5019·2	(1) 5209·3
(5) 5059·6	(6) 5372·5	(4) 5059·6	(3) 5372·5	(3) 5043·2	(1) 5406·3	(5) 4941·4	(2) 5229	(5) 5043·2	(2) 5300·0
(2) 5082·3	(1) 5393·5	(6) 5071·9	(2) 5393·5	(6) 5059·5	(6) 5477·3	(4) 5043·2	(3) 5282·4	(4) 5059·5	(3) 5393·5
(4) 5090·2	(2) 5406·4	(2) 5090·2	(1) 5406·3	(4) 5066·2	(3) 5489	(3) 5066·2	(4) 5300	(3) 5066·2	(6) 5489·0
(1) 5096·2	(3) 5418	(1) 5112·2	(5) 5477·3	(2) 5090·2	(4) 5513·2	(1) 5112·2	(5) 5393·5	(1) 5112·2	(4) 5583·8
(3) 5112·2	(4) 5489	(5) 5119·9	(4) 5489·0	(1) 5112·2	(5) 5520·4	(2) 5123·2	(6) 5591·2	(2) 5123·2	(5) 5513·2
Lat. + 12°4'		Lat. + 12°8'		Lat. + 13°0'		Lat. + 13°8'		Lat. + 13°8'	

Greenwich No. 1970a.		Greenwich No. 1970a.		Greenwich No. 1970a.		Greenwich No. 1971a.		Greenwich No. 1973a.	
1887. April 21.		1887. April 23.		1887. April 26.		1887. April 28.		1887. May 10.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
(4) 4988.2	(1) 5209.3	(1) 4988.2	(6) 5209.3	(6) 4988.2	(1) 5209.3	(2) 4929.2	(6) 5209.3	(5) 4941.4	(5) 5460.5
(5) 5043.2	(2) 5300	(6) 5016.7	(5) 5252.5	(5) 5019.2	(2) 5300	(6) 4972.2	(2) 5279.5	(1) 4988.0	(3) 5489.0
(6) 5066.2	(5) 5393.5	(2) 5043.2	(1) 5300	(3) 5043.2	(3) 5390.5	(1) 5043.2	(1) 5300	(2) 5043.2	(6) 5572.4
(3) 5112.2	(6) 5406.5	(4) 5066.2	(3) 5393.5	(4) 5066.2	(6) 5406.5	(4) 5059.5	(3) 5460.5	(3) 5059.5	(4) 5591.2
(1) 5123.2	(3) 5489	(3) 5112.2	(2) 5406.4	(1) 5112.2	(5) 5489.0	(3) 5112.2	(5) 5513.3	(4) 5112.2	(1) 5671.1
(2) 5126.6	(4) 5583.8	(5) 5158.4	(4) 5583.8	(2) 5123.2	(4) 5583.8	(5) 5123.2	(4) 5583.8	(6) 5121.0	(2) 5671.8
Lat. + 13.6°		Lat. 13.1°		Lat. + 12.7°		Lat. + 11.7°		Lat. + 12.5°	
Greenwich No. 1978b.		Greenwich No. 1978c.		Greenwich No. 1987a.		Greenwich No. 1987a.		Greenwich No. 1987a.	
1887. May 16.		1887. May 21.		1887. June 9.		1887. June 10.		1887. June 11.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
(5) 4988.2	(3) 5209.3	(2) 4888.0	(2) 5372.5	(4) 4929.4	(1) 5209.3	(4) 4949.4	(1) 5209.3	(2) 4988.2	(1) 5209.3
(4) 5043.2	(5) 5300.0	(1) 4961.8	(1) 5390.5	(5) 4961.8	(6) 5425.5	(6) 4961.8	(6) 5425.5	(3) 5019.2	(2) 5345
(1) 5075.8	(1) 5577.2	(3) 4988.2	Cloudy.	(2) 5043.4	(2) 5671	(5) 4988.2	(4) 5425.5	(4) 5043.4	(3) 5425.5
(2) 5119.9	(2) 5583.8	(4) 5043.2		(1) 5059.5	(3) 5672	(3) 5043.4	(2) 5671	(1) 5059.5	(4) 5496.5
(3) 5123.2	(4) 5677.8	(6) 5071.8		(6) 5075.8	(5) 5730.5	(1) 5059.5	(3) 5672	(5) 5061	(5) 5671
		(5) 5121.0		(3) 5112.2	(6) 5865.2	(2) 5112.2	(5) 5730.5		(6) 5672
Lat. - 8.9°		Lat. 9.5°		Lat. - 8.5°		Lat. - 8.3°		Lat. 8.2°	
Greenwich No. 1987a.		Greenwich No. 1987a.		Greenwich No. 1987a.		Greenwich No. 1987a.		Greenwich No. 1991a.	
1887. June 13.		1887. June 15.		1887. June 16.		1887. June 17.		1887. July 1.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
(5) 4961.8	(1) 5209.3	(5) 4961.8	(1) 5209.3	(5) 4961.8	(1) 5209.3	(5) 4961.8	(1) 5209.3	(4) 4929.3	(1) 5209.3
(4) 4988.2	(3) 5425.5	(4) 4988.2	(2) 5425.5	(1) 4988.2	(2) 5425.5	(2) 4988.2	(2) 5425.5	(2) 4988.2	(3) 5425.5
(6) 4995.8	(2) 5583.8	(6) 5030	(4) 5489	(2) 5043.4	(4) 5489	(3) 5043.4	(4) 5489.0	(3) 4993.2	(2) 5496.5
(2) 5043.4	(5) 5671	(2) 5043.4	(3) 5583.8	(4) 5059.5	(3) 5583.8	(1) 5059.5	(3) 5583.8	(1) 5043.2	(4) 5583.8
(1) 5059.5	(6) 5672	(1) 5059.5	(5) 5671	(6) 5071.8	(5) 5671	(6) 5071.8	(5) 5671	(6) 5059.5	(5) 5671
(3) 5112.2	(4) 5730.5	(3) 5112.2	(6) 5672	(3) 5112.2	(6) 5672	(4) 5112.2	(6) 5672	(5) 5112.2	(6) 5672
Lat. 8.1°		Lat. 8.6°		Lat. 7.7°		Lat. 7.6°		Lat. 11.9°	

Greenwich No. 1992a.		Greenwich No. 1991a.		Greenwich No. 1992a.		Greenwich No. 1991a.		Greenwich No. 1992a.	
1887. July 4.		1887. July 4.		1887. July 5.		1887. July 5.		1887. July 6.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
(1) 4961·8	(1) 5209·3	(1) 4961·8	(1) 5209·3	(1) 4961·8	(1) 5209·3	(1) 4961·8	(1) 5209·3	(1) 4988·2	(1) 5209·3
(3) 4988·2	(3) 5489·0	(2) 4988·2	(4) 5393·5	(3) 4988·2	(3) 5489·0	(2) 4988·2	(4) 5393·5	(2) 4993·2	(4) 5218
(2) 4993·2	(4) 5513·2	(4) 5075·8	(3) 5489	(2) 4993·2	(4) 5513·2	(4) 5075·8	(3) 5489	(3) 5019·2	(2) 5393·5
(6) 5006·5	(2) 5583·8	(3) 5112·2	(2) 5583·8	(6) 5006·5	(2) 5583·8	(3) 5112·2	(2) 5583·8	(4) 5066·2	(3) 5583·8
(5) 5075·8	(5) 5671	(5) 5156·0	(5) 5671	(5) 5075·8	(5) 5671	(5) 5156	(5) 5671	(5) 5075·8	(5) 5671
(4) 5112·2	(6) 5672	(6) 5159·5	(6) 5672	(4) 5112·2	(6) 5672	(6) 5159·5	(6) 5672	(6) 5112·2	(6) 5672
Lat. - 7·5°		Lat. - 11·7°		Lat. - 7·5°		Lat. - 11·7°		Lat. - 7·5°	
Greenwich No. 1991a.		Greenwich No. 1992a.		Greenwich No. 1991a.		Greenwich No. 1994b.		Greenwich No. 1994a.	
1887. July 6.		1887. July 7.		1887. July 7.		1887. July 8.		1887. July 8.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
(2) 4961·8	(1) 5209·3	(1) 4988·2	(1) 5209·3	(2) 4961·8	(1) 5209·3	(5) 4988·2	(1) 5209·3	(5) 4988·2	(1) 5209·3
(1) 4988·2	(4) 5300	(5) 4993·2	(4) 5218	(1) 4988·2	(4) 5300	(1) 5043·2	(2) 5218	(1) 5043·2	(2) 5218
(6) 5066·2	(3) 5425·5	(6) 5019·2	(2) 5393·5	(6) 5066·2	(3) 5425·5	(6) 5112·2	(6) 5489	(6) 5112·2	(6) 5489
(5) 5112·2	(2) 5583·8	(2) 5066·2	(3) 5583·8	(5) 5112·2	(2) 5583·8	(2) 5136·0	(4) 5671	(2) 5136·0	(4) 5671
(3) 5156·0	(5) 5671	(4) 5075·8	(5) 5671	(3) 5136·0	(5) 5671	(3) 5159·5	(5) 5672	(3) 5159·5	(5) 5672
(4) 5159·5	(6) 5672	(3) 5112·2	(6) 5672	(4) 5159·5	(6) 5671	(4) 5162·0	(3) 5703·5	(4) 5162·0	(3) 5703·5
Lat. - 11·7°		Lat. - 7·4°		Lat. - 11·8°		Lat. + 8·0°		Lat. + 6·6°	
Greenwich No. 1992a.		Greenwich No. 1993a.		Greenwich No. 1994b.		Greenwich No. 1994a.		Greenwich No. 1992a.	
1887. July 8.		1887. July 8.		1887. July 9.		1887. July 9.		1887. July 9.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
(1) 4988·2	(1) 5209·3	(6) 4975·9	(6) 5209·3	(5) 4988·2	(1) 5209·3	(5) 4988·2	(1) 5209·3	(1) 4988·2	(1) 5209·3
(5) 4993·2	(4) 5218	(5) 5043·2	(1) 5300	(1) 5043·2	(2) 5218	(1) 5043·2	(2) 5218	(5) 4993·2	(4) 5218
(6) 5019·2	(2) 5393·5	(1) 5059·5	(2) 5393·5	(6) 5112·2	(6) 5489	(6) 5112·2	(6) 5489	(6) 5019·2	(2) 5393·5
(2) 5066·2	(3) 5583·8	(2) 5156·0	(4) 5671	(2) 5156·0	(4) 5671	(2) 5156·0	(4) 5671	(2) 5066·2	(3) 5583·8
(4) 5075·8	(5) 5671	(3) 5159·5	(5) 5672	(3) 5159·5	(5) 5672	(3) 5159·5	(5) 5672	(4) 5075·8	(5) 5671
(3) 5112·2	(6) 5672	(4) 5162·0	(3) 5703·5	(4) 5162·0	(3) 5703·5	(4) 5162·0	(3) 5703·5	(3) 5112·2	(6) 5672
Lat. - 7·4°		Lat. - 19·0°		Lat. + 8·2°		Lat. + 6·2°		Lat. - 7·4°	

Greenwich No. 1993a.		Greenwich No. 1994b.		Greenwich No. 1994a.		Greenwich No. 1992a.		Greenwich No. 1994b.	
1887. July 9.		1887. July 12.		1887. July 12.		1887. July 12.		1887. July 15.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
(6) 4975.9	(6) 5209.3	(5) 4988.2	(1) 5209.3	(5) 4988.2	(1) 5209.3	(1) 4988.2	(1) 5209.3	(5) 4975.9	(1) 5209.3
(5) 5043.2	(1) 5300	(1) 5043.2	(2) 5218	(1) 5043.2	(2) 5218	(5) 4993.2	(4) 5218	(1) 5043.2	(2) 5218
(1) 5059.5	(2) 5393.5	(6) 5112.2	(6) 5489	(6) 5112.2	(6) 5489	(6) 5019.2	(2) 5393.5	(6) 5112.2	(6) 5227.5
(2) 5156.0	(4) 5671	(2) 5156.0	(4) 5671	(2) 5156.0	(4) 5671	(2) 5066.2	(3) 5583.8	(2) 5156.0	(4) 5671
(3) 5159.5	(5) 5672	(3) 5159.5	(5) 5672	(3) 5159.5	(5) 5672	(4) 5075.8	(5) 5671	(3) 5159.5	(5) 5672
(4) 5162.0	(3) 5703.5	(4) 5162.0	(3) 5703.5	(4) 5162.0	(3) 5703.5	(3) 5112.2	(6) 5672	(4) 5162.0	(3) 5703.5
Lat. - 18.4°		Lat. - 9.1°		Lat. + 6.0°		Lat. - 7.3°		Lat. + 8.8°	
Greenwich No. 1994a.		Greenwich No. 1994b.		Greenwich No. 1994a.		Greenwich No. 1995.		Greenwich No. 1995a.	
1887. July 15.		1887. July 16.		1887. July 16.		1887. July 23.		1887. July 26.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
(5) 4975.9	(1) 5209.3	(5) 4975.9	(1) 5209.3	(5) 4975.9	(1) 5209.3	(6) 4921.1	(2) 5209.3	(6) 4909.5	(3) 5209.3
(1) 5043.2	(2) 5218	(1) 5043.2	(2) 5218	(1) 5043.2	(2) 5218	(5) 4988.2	(1) 5300	(5) 4988.2	(2) 5300
(6) 5112.2	(6) 5227.5	(6) 5112.2	(6) 5227.5	(6) 5112.2	(6) 5227.5	(3) 5003.1	(6) 5489.0	(4) 5030.0	(1) 5393.5
(2) 5156.0	(4) 5671	(2) 5156.0	(4) 5671	(2) 5156	(4) 5671	(4) 5030.0	(4) 5710.8	(1) 5043.3	(4) 5482.5
(3) 5159.5	(5) 5672	(3) 5159.5	(5) 5672	(3) 5159.5	(5) 5672	(2) 5043.3	(5) 5790.2	(2) 5112.2	(5) 5591.3
(4) 5162.0	(3) 5703.5	(4) 5162.0	(3) 5703.5	(4) 5162	(3) 5703.5	(1) 5090.2	(3) 5865.1	(3) 5158.3	(6) 5703.5
Lat. + 5.6°		Lat. + 8.7°		Lat. + 5.6°		Lat. - 9.2°		Lat. - 10.0°	
Greenwich No. 1996a.		Greenwich No. 1995a.		Greenwich No. 1995a.		Greenwich No. 1998.		Greenwich No. 2000.	
1887. July 26.		1887. July 27.		1887. July 28.		1887. July 30.		1887. August 2.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
(6) 4921.2	(1) 5209.3	(6) 5019.2	(3) 5209.3	(1) 5156	(3) 5209.3	(1) 4975.9	(1) 5209.3	(4) 4863.5	(1) 5209.3
(5) 4988.2	(2) 5300	(5) 5081.8	(4) 5393.5	(2) 5159.5	(4) 5393.5	(6) 5019.2	(4) 5218	(1) 4975.9	(4) 5218
(3) 5003.1	(3) 5489	(4) 5112.2	(5) 5425.5	(3) 5162	(5) 5425.5	(2) 5081.8	(5) 5300	(5) 4988.2	(6) 5300
(4) 5030	(4) 5710.8	(1) 5156.0	(1) 5671	Cloudy		(3) 5112.2	(2) 5671	(3) 5019.2	(2) 5671
(2) 5043.3	(5) 5790.2	(2) 5159.5	(2) 5672			(4) 5159.5	(3) 5672	(6) 5059.5	(3) 5672
(1) 5090.2	(6) 5865.1	(3) 5162.0	(6) 5703.5			(5) 5162.0	(6) 5863.2	(2) 5112.2	(5) 5865.1
Lat. - 13.2°		Lat. - 9.8°		Lat. - 9.7°		Lat. - 7.9°		Lat. + 11.4°	

Greenwich No. 1999a.		Greenwich No. 1998.		Greenwich No. 1997.		Greenwich No. 2000.		Greenwich No. 1999c.	
1887. August 2.		1887. August 2.		1887. August 2.		1887. August 3.		1887. August 3.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
(1) 4863.5	(1) 5185	(2) 4863.5	(1) 5209.3	(4) 4863.5	(1) 5185.0	(4) 4863.5	(1) 5209.3	(5) 4975.9	(1) 5209.3
(2) 4975.9	(2) 5209.3	(6) 4975.9	(5) 5300	(2) 4975.9	(2) 5209.3	(1) 4975.9	(4) 5218.0	(6) 5043.3	(2) 5224.9
(3) 5043.3	(6) 5300	(4) 5043.3	(4) 5406.5	(1) 5059.5	(6) 5300.0	(5) 4988.2	(6) 5300.0	(4) 5059.5	(3) 5300.0
(4) 5059.5	(4) 5671	(3) 5059.5	(6) 5489.0	(3) 5081.8	(4) 5671.0	(3) 5019.2	(2) 5671.0	(3) 5112.2	(5) 5671.0
(5) 5112.2	(5) 5672	(5) 5112.2	(2) 5671	(6) 5112.2	(5) 5672.0	(6) 5059.5	(3) 5672.0	(2) 5159.5	(6) 5672.0
(6) 5159.5	(3) 5865.1	(1) 5164.9	(3) 5672	(5) 5159.5	(3) 5833.0	(2) 5112.2	(5) 5865.1	(1) 5164.9	(4) 5833.0
Lat. - 3.8°		Lat. - 7.7°		Lat. - 10.7°		Lat. + 11.6°		Lat. - 5.7°	
Greenwich No. 1999a.		Greenwich No. 1999b.		Greenwich No. 1998.		Greenwich No. 1997a.		Greenwich No. 2000.	
1887. August 3.		1887. August 3.		1887. August 3.		1887. August 3.		1887. August 4.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
(1) 4863.5	(1) 5185.0	(1) 4863.5	(1) 5209.3	(5) 4975.9	(1) 5209.3	(1) 4863.5	(1) 5185.0	(4) 4863.5	(1) 5209.3
(2) 4975.9	(2) 5209.3	(2) 4975.9	(2) 5218.0	(6) 5059.5	(2) 5218.0	(2) 4975.9	(2) 5209.3	(1) 4975.9	(4) 5218.0
(3) 5043.3	(6) 5300.0	(3) 5059.5	(3) 5300.0	(4) 5112.2	(3) 5224.9	(3) 5043.5	(6) 5300.0	(3) 5019.2	(6) 5300.0
(4) 5059.5	(4) 5671.0	(5) 5112.2	(4) 5431.6	(3) 5141.5	(4) 5300.0	(4) 5059.5	(4) 5671.0	(6) 5059.5	(5) 5566.5
(5) 5112.2	(5) 5672.0	(6) 5159.2	(5) 5671.0	(2) 5159.5	(5) 5671.0	(6) 5112.2	(5) 5672.0	(2) 5112.2	(2) 5671.0
(6) 5159.5	(3) 5730.5	(4) 5164.5	(6) 5672.0	(1) 5164.9	(6) 5672.0	(5) 5159.5	(3) 5833.0	(5) 5159.5	(3) 5672.0
Lat. - 4.0°		Lat. - 4.7°		Lat. - 7.3°		Lat. - 10.6°		Lat. + 11.7°	
Greenwich No. 1999c.		Greenwich No. 1999a.		Greenwich No. 1999b.		Greenwich No. 1998.		Greenwich No. 1997a.	
1887. August 4.		1887. August 4.		1887. August 4.		1887. August 4.		1887. August 4.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
(5) 4975.9	(1) 5209.3	(1) 4863.5	(1) 5185.0	(1) 4863.5	(1) 5209.3	(6) 4975.9	(1) 5209.3	(1) 4863.5	(1) 5185.0
(6) 5043.3	(2) 5224.9	(2) 4975.9	(2) 5209.3	(4) 5059.5	(2) 5218.0	(5) 5043.3	(4) 5244.9	(2) 4975.9	(2) 5209.3
(4) 5059.5	(3) 5300.0	(3) 5043.3	(6) 5300.0	(6) 5081.8	(3) 5300.0	(4) 5059.5	(2) 5300.0	(3) 5043.5	(6) 5300.0
(3) 5112.2	(5) 5671.0	(4) 5059.5	(4) 5671.0	(5) 5112.2	(4) 5372.5	(3) 5112.2	(3) 5393.5	(4) 5059.5	(4) 5671.0
(2) 5159.5	(6) 5672.0	(5) 5112.2	(5) 5672.0	(3) 5159.5	(5) 5671.0	(1) 5159.5	(5) 5671	(6) 5112.2	(5) 5672.0
(1) 5164.9	(4) 5833.0	(6) 5159.5	(3) 5730.5	(2) 5164.5	(6) 5672.0	(2) 5164.9	(6) 5672	(5) 5159.5	(3) 5833.0
Lat. 5.8°		Lat. - 4.4°		Lat. - 4.6°		Lat. 7.3°		Lat. 10.4°	

Greenwich No. 2000.		Greenwich No. 1999c.		Greenwich No. 1999a.		Greenwich No. 1999b.		Greenwich No. 1998.	
1887. August 5.		1887. August 5.		1887. August 5.		1887. August 5.		1887. August 5.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
(4) 4863.5	(1) 5209.3	(6) 5043.5	(1) 5209.3	(1) 4863.5	(1) 5185.0	(5) 4863.5	(1) 5209.3	(1) 4909.5	(1) 5209.5
(1) 4975.9	(4) 5218.0	(5) 5059.5	(2) 5224.9	(2) 4975.9	(2) 5209.3	(1) 5043.5	(2) 5300.0	(2) 5043.5	(4) 5300.0
(3) 5019.2	(6) 5300.0	(4) 5112.5	(3) 5300.0	(3) 5043.3	(6) 5300.0	(2) 5059.5	(3) 5406.5	(5) 5059.5	(5) 5671.0
(6) 5059.5	(3) 5366.5	(2) 5141.0	(5) 5671.0	(4) 5059.5	(4) 5671.0	(6) 5112.2	(4) 5583.5	(3) 5112.2	(6) 5672.0
(2) 5112.2	(2) 5671.0	(3) 5159.5	(6) 5672.0	(5) 5112.2	(5) 5672.0	(4) 5159.5	(5) 5671.0	(6) 5159.5	(2) 5741.0
(5) 5159.5	(3) 5672.0	(1) 5164.9	(4) 5730.5	(6) 5159.5	(3) 5730.5	(3) 5164.5	(6) 5672.0	(4) 5164.5	(3) 5865.1
Lat. + 11.9		Lat. 6.2		Lat. - 5.0		Lat. - 3.8°		Lat. - 7.6°	
Greenwich No. 1997a.		Greenwich No. 1999.		Greenwich No. 1999a.		Greenwich No. 1999b.		Greenwich No. 1998.	
1887. August 5.		1887. August 6.		1887. August 6.		1887. August 6.		1887. August 6.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
(1) 4863.5	(1) 5185.0	(2) 4961.8	(1) 5209.3	(6) 4863.5	(1) 5209.3	(5) 4863.5	(1) 5209.3	(6) 4893.9	(1) 5209.5
(2) 4975.9	(2) 5209.3	(6) 5043.5	(2) 5224.9	(5) 4975.9	(2) 5300.0	(1) 5043.5	(2) 5300.0	(3) 4961.8	(2) 5300.0
(3) 5043.5	(6) 5300.0	(5) 5059.5	(3) 5300.0	(1) 5043.5	(4) 5583.5	(2) 5059.5	(3) 5406.5	(2) 5043.5	(3) 5431.7
(4) 5059.5	(4) 5671.0	(4) 5112.5	(5) 5671.0	(2) 5059.5	(5) 5671.0	(6) 5112.2	(4) 5583.5	(1) 5059.5	(4) 5434.7
(6) 5112.2	(5) 5672.0	(3) 5159.5	(6) 5672.0	(3) 5112.2	(6) 5672.0	(4) 5159.5	(5) 5671.0	(5) 5112.5	(5) 5671.0
(5) 5159.5	(3) 5833.0	(1) 5164.9	(4) 5756.0	(4) 5159.5	(3) 5865.1	(3) 5164.5	(6) 5672.0	(4) 5159.5	(6) 5672.0
Lat. - 10.6		Lat. - 5.7°		Lat. - 5.1		Lat. - 3.4°		Lat. - 7.4	
Greenwich No. 1997a.		Greenwich No. 1999.		Greenwich No. 1999.		Greenwich No. 1999b.		Greenwich No. 1999a.	
1887. August 6.		1887. August 8.		1887. August 8.		1887. August 8.		1887. August 8.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
(4) 4863.5	(1) 5209.5	(3) 4863.5	(3) 5185.1	(2) 4961.8	(1) 5209.3	(6) 4863.5	(1) 5209.3	(5) 4863.5	(1) 5209.5
(5) 4961.8	(2) 5300.0	(2) 5043.5	(1) 5209.5	(6) 5043.5	(2) 5224.9	(5) 4975.9	(2) 5300.0	(1) 5043.5	(2) 5300.0
(1) 5043.5	(5) 5671.0	(1) 5059.5	(2) 5300.0	(5) 5059.5	(3) 5300.0	(1) 5043.5	(4) 5583.5	(3) 5059.5	(5) 5372.5
(2) 5059.5	(6) 5672.0	(6) 5112.2	(4) 5406.5	(4) 5112.5	(5) 5671.0	(2) 5059.5	(5) 5671.0	(6) 5112.5	(6) 5393.5
(6) 5112.5	(3) 5863.2	(4) 5159.5	(5) 5583.5	(3) 5159.5	(6) 5672.0	(3) 5112.2	(6) 5672.0	(4) 5159.5	(3) 5406.5
(3) 5159.5	(4) 5865.1	(5) 5164.9	(6) 5756.0	(1) 5164.9	(4) 5756.0	(4) 5159.5	(3) 5865.1	(2) 5164.9	(4) 5383.5
Lat. - 10.3		Lat. 4.0		Lat. 6.0°		Lat. - 3.7		Lat. - 5.2°	

Greenwich No. 1998.		Greenwich No. 1999a.		Greenwich No. 1998.		Greenwich No. 1999a.		Greenwich No. 1999.	
1887. August 8.		1887. August 9.		1887. August 9.		1887. August 10.		1887. August 10.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
(6) 4893·9	(1) 5209·5	(4) 4863·5	(1) 5209·5	(6) 4893·9	(1) 5209·5	(4) 4863·5	(1) 5209·5	(6) 4893·9	(1) 5209·5
(3) 4961·8	(2) 5300·0	(1) 5043·5	(2) 5300·0	(3) 4961·8	(2) 5300·0	(1) 5043·5	(2) 5300·0	(3) 4961·8	(2) 5300·0
(2) 5043·5	(3) 5431·7	(5) 5059·5	(6) 5329·3	(2) 5043·5	(3) 5431·7	(5) 5059·5	(6) 5329·3	(2) 5043·5	(3) 5431·7
(1) 5059·5	(4) 5434·7	(3) 5112·5	(5) 5372·5	(1) 5059·5	(4) 5434·7	(3) 5112·5	(5) 5372·5	(1) 5059·5	(4) 5434·7
(5) 5112·5	(5) 5671·0	(6) 5159·5	(4) 5577·5	(5) 5112·5	(5) 5671·0	(6) 5159·5	(4) 5577·5	(5) 5112·5	(5) 5671·0
(4) 5159·5	(6) 5672·0	(2) 5164·9	(3) 5583·5	(4) 5159·5	(6) 5672·0	(2) 5164·9	(3) 5583·5	(4) 5159·5	(6) 5672·0

Greenwich No. 2008a.		Greenwich No. 2008b.		Greenwich No. 2012.		Greenwich No. 2012.		Greenwich No. 2012.	
1887. September 22.		1887. September 22.		1887. October 21.		1887. October 24.		1887. October 25.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
(6) 4863.5	(6) 5300.0	(5) 4959.0	(2) 5207.3	(6) 4935.1	(1) 5209.3	(5) 4863.5	(1) 5209.3	(3) 4863.5	(1) 5209.3
(5) 4875.0	(3) 5489.0	(3) 5043.5	(6) 5489.0	(2) 5006.4	(3) 5287.5	(6) 5006.4	(4) 5300.0	(4) 4941.5	(2) 5300.0
(2) 5043.3	(2) 5515.4	(6) 5059.5	(3) 5515.4	(4) 5043.3	(2) 5300.0	(2) 5043.5	(2) 5431.8	(1) 5043.5	(3) 5431.8
(4) 5059.5	(4) 5671.0	(2) 5112.1	(4) 5671.0	(3) 5059.5	(5) 5418.0	(4) 5059.5	(3) 5583.5	(2) 5059.5	(5) 5583.5
(3) 5112.1	(5) 5672.0	(4) 5159.5	(5) 5672.0	(5) 5119.9	(6) 5583.5	(3) 5075.9	(5) 5689.3	(6) 5119.9	(4) 5689.3
(1) 5164.9	(1) 5703.2	(1) 5164.9	(1) 5703.2	(1) 5164.9	(4) 5865.2	(1) 5164.9	(6) 5865.2	(5) 5164.9	(6) 5865.2
Lat. + 2.9°		Lat. + 8°		Lat. - 0.3°		Lat. + 0.5°		Lat. + 0.4°	
Greenwich No. 2012.		Greenwich No. 2021d & e.		Greenwich No. 2021.		Greenwich No. 2029a.		Greenwich No. 2031a.	
1887. October 26.		1887. December 9.		1887. December 14.		1888. January 20.		1888. January 20.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
(6) 4863.5	(1) 5209.3	(3) 4863.5	(1) 5209.3		(1) 5209.3	(6) 4863.5	(1) 5209.3	(1) 5006.5	(1) 5209.5
(4) 4935.1	(2) 5300.0	(6) 4954.6	(2) 5300.0		(2) 5583.5	(4) 4954.3	(3) 5300.0	(2) 5043.5	(2) 5279.5
(5) 5006.3	(3) 5431.8	(4) 5019.3	(6) 5372.5		(3) 5865.2	(5) 5006.5	(2) 5372.5	(3) 5059.5	(3) 5300.0
(1) 5043.5	(6) 5583.6	(1) 5043.5	(5) 5431.5			(1) 5043.5	(6) 5431.8	(4) 5164.9	(4) 5583.5
(2) 5059.5	(4) 5689.3	(5) 5059.5	(3) 5583.5			(3) 5059.5	(5) 5583.5		
(3) 5164.9	(5) 5865.2	(2) 5164.9	(4) 5591.3			(2) 5164.9	(4) 5865.1		
Lat. + 0.3°		Lat. - 6.9°		Lat. - 8.0°		Lat. - 8.4°		Lat. - 9.6°	
Greenwich No. 2035e.		Greenwich No. 2035a.		Greenwich No. 2037a.		Greenwich No. 2049a.		Greenwich No. 2052a.	
1888. February 20.		1888. February 20.		1888. March 15.		1888. April 27.		1888. May 12.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
(4) 4863.5	(3) 5209.3	(2) 4863.5	(1) 5209.3	(4) 4929.3	(6) 5209.3	(4) 4963.2	(2) 5342.0 d	(5) 4961.8	(2) 5245.2
(5) 5043.5	(6) 5279.5	(1) 5043.5	(2) 5300.0	(5) 5019.2	(5) 5300.0	(5) 5019.5	(1) 5406.0	(3) 4967.2	(3) 5342.0
(3) 5059.5	(2) 5300.0	(4) 5059.5	(3) 5431.8	(1) 5043.5	(4) 5332.0	(1) 5043.2	(3) 5465.0	(2) 4988.2	(4) 5342.5
(2) 5159.5	(4) 5431.8	(6) 5159.5	(4) 5459.5	(2) 5066.2	(3) 5489.0	(2) 5071.8	(4) 5473.0	(4) 5030.2	(1) 5406.2
(6) 5162.2	(1) 5459.5	(3) 5162.2	(6) 5677.9	(6) 5070.8	(2) 5542.0	(6) 5112.0	(5) 5526.0	(1) 5071.0	(6) 5473.0
(1) 5164.9	(5) 5583.5	(5) 5164.9	(5) 5832.5	(3) 5086.0	(1) 5583.7	(3) 5154.8	(6) 5545.5	(6) 5112.0	(5) 5771.2
Lat. - 4.3		Lat. - 4.6°		Lat. - 2.9°		Lat. - 13.4°		Lat. - 7.5°	
								5300	

Greenwich No. 2052a.		Greenwich No. 2088.		Greenwich No. 2090a.		Greenwich No. 2090a.		Greenwich No. 2090a.	
1888. May 15.		1889. May 6.		1889. June 19.		1889. June 20.		1889. June 22.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
(2) 4993·2	(2) 5245·2	4902·0	5207·5	(6) 4935·1	(1) 5232·0	(1) 4935·1	(1) 5232·0	(1) 4935·1	(1) 5232·0
(4) 5030·0	(1) 5406·2	4920·0	5332·0	(5) 4946·0	(2) 5296·0	(2) 4946·0	(2) 5296·0	(3) 4946·0	(2) 5296·0
(5) 5059·5	(3) 5473·0	4946·0	5396·0	(2) 4965·0	(3) 5296·4	(4) 4965·0	(3) 5296·4	(6) 4965·0	(3) 5296·4
(1) 5074·0	(4) 5671·0	4965·0	5414·5	(4) 5043·5	(4) 5392·0	(6) 5064·0	(5) 5506·0	(4) 5064·0	(5) 5506·0
(6) 5112·0	(5) 5672·0	5051·0	5497·0	(1) 5068·0	(5) 5454·5	(3) 5068·0	(6) 5545·5	(2) 5068·0	(6) 5545·5
(3) 5123·1	(6) 5697·2	5064·0	5513·0	(3) 5164·9	(6) 5506·0	(5) 5164·9	(4) 5856·0	(5) 5164·9	(4) 5856·0
					5856·0		5469·5		5469·5
Lat. - 7·5°		Lat. - 1·5°		Lat. - 5·8°		Lat. - 5·8°		Lat. - 5·6°	
Greenwich No. 2090a.		Greenwich No. 2090a.		Greenwich No. 2092a.		Greenwich No. 2097a.		Greenwich No. 2097a.	
1889. June 25.		1889. June 26.		1889. July 17.		1889. August 7.		1889. August 8.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
(1) 4935·1	(1) 5232·0	(1) 4935·1	(1) 5192·0	(1) 4877·5	(4) 5469·5	4903·0	5342·0	(1) 4877·5	(1) 5342·0
(2) 4946·0	(2) 5296·0	(2) 4946·0	(2) 5232·0	(2) 4903·8	(5) 5536·5		5406·0	(2) 4903·0	(4) 5406·5
(4) 4965·0	(3) 5296·4	(3) 4965·0	(3) 5226·4	(3) 4923·0	(3) 5496·0		5464·5	(3) 4923·0	(3) 5469·5
(5) 5043·5	(4) 5545·5	(4) 5043·5	(4) 5296·4	(4) 4981·0	(2) 5545·5		5496·0	(4) 4981·0	(2) 5496·0
(3) 5068·0	(6) 5192·0	(5) 5068·0	(6) 5506·0	(6) 5043·5	(1) 5583·5		5536·5	(6) 5043·5	(5) 5536·5
(6) 5164·9	(5) 5856·0	(6) 5164·9	(5) 5545·5	(5) 5164·9	(6) 5678·0		5584·8	(5) 5164·9	(6) 5584·8
	5506·0		5856·0						
Lat. - 4·9°		Lat. - 4·8°		Lat. - 8·1°		Lat. - 20·3°		Lat. - 20·1°	
Greenwich No. 2098a.		Greenwich No. 2098a.		Greenwich No. 2100.		Greenwich No. 2100.		Greenwich No. 2100.	
1889. August 15.		1889. August 16.		1889. August 29.		1889. August 30.		1889. September 4.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
	(1) 5342·0	(1) 4877·5	(1) 5342·0	(5) 4863·5	(1) 5209·3	(5) 4863·5	(1) 5209·3	(1) 4863·5	(1) 5209·3
	(4) 5406·5	(2) 4903·0	(4) 5406·5	(4) 5043·5	(2) 5300·0	(4) 5043·5	(2) 5300·0	(2) 4923·0	(2) 5300·0
	(3) 5469·5	(3) 4923·0	(3) 5469·5	(6) 5059·5	(4) 5431·8	(6) 5059·5	(4) 5431·8	(3) 5043·5	(3) 5431·8
	(2) 5496·0	(4) 4981·0	(2) 5496·0	(3) 5159·5	(3) 5459·5	(3) 5159·5	(3) 5459·5	(4) 5059·5	(4) 5583·5
	(5) 5536·5	(6) 5043·5	(5) 5536·5	(2) 5162·2	(6) 5583·5	(2) 5162·2	(6) 5583·5	(5) 5162·2	(6) 5591·3
	(6) 5584·5	(5) 5164·9	(6) 5584·5	(1) 5164·9	(5) 5865·2	(1) 5164·9	(5) 5865·2	(6) 5164·9	(5) 5865·2
Lat. - 6·5°		Lat. - 6·4°		Lat. - 18·8°		Lat. - 19·1°		Lat. - 19·6°	

Greenwich No. 2141b.	Greenwich No. 2141b.	Greenwich No. 2141b.	Greenwich No. 2141b.	Greenwich No. 2141a.
1889, September 6.	1890, August 28.	1890, August 29.	1890, September 1.	1890, September 5.
F—b b—D	F—b b—D	F—b b—D	F—b b—D	F—b b—D
4863.5 5299.3	(1) 4956.7 (3) 5249.6	4956.7 (4) 5249.6	(3) 5035.4 (1) 5254.1	(1) 4933.3 (1) 5332.0
4923.6 5300.0	(2) 5035.4 (2) 5265.3	5035.4 (1) 5254.1	(6) 5064.1 (3) 5265.3	(2) 5035.4 (2) 5372.5
5033.5 5431.8	(6) 5064.1 (1) 5297.5	5107.0 (3) 5265.3	(4) 5107.0 (2) 5297.5	(3) 5064.1 (4) 5382.2
5050.5 5459.5	(3) 5107.0 (4) 5332.0	5114.8 (2) 5297.5	(5) 5114.8 (5) 5332.0	(4) 5114.8 (3) 5388.5
5150.5 5591.3	(4) 5114.8 (5) 5531.5	5136.7 (5) 5332.0	(1) 5136.7 (6) 5531.5	(5) 5133.0 (6) 5433.0
5164.9 5865.2	(5) 5157.5 (6) 5633.2	5157.5 (6) 5531.5	(2) 5157.5 (4) 5653.2	(6) 5158.5 (5) 5653.2
		5064.1 5653.2		5531.5
Lat. - 19.4°	Lat. - 22.2°	Lat. + 21.9°	Lat. + 22.3°	Lat. + 20.3°
Greenwich No. 2156.	Greenwich No. 2156a.	Greenwich No. 2156a.	Greenwich No. 2158a.	Greenwich No. 2169a.
1890, October 22.	1890, October 27.	1890, October 28.	1890, November 8.	1891, January 21.
F—b b—D	F—b b—D	F—b b—D	F—b b—D	F—b b—D
(6) 4941.5 (1) 5279.6	4903.8 5201.2	4903.8 5254.5	4923.1 5209.4	4877.5 5246.0
(5) 4977.8 (2) 5300.0	4941.5 5254.5	4977.8 5279.6	4941.5 5332.0	4949.2 5292.0
(3) 5064.1 (3) 5332.0	5011.3 5300.0	5064.1 5287.5	4977.8 5302.0	5035.2 5496.5
(4) 5096.4 (5) 5370.5	5090.2 5382.2	5123.2 5382.2	5051.0 5414.4	5126.5 5577.6
(2) 5123.2 (4) 5469.0	5133.0 5614.5	5133.0 5730.5	5133.0 5513.0	5138.5 5674.3
(1) 5161.3 (6) 5746.7	5161.5 5815.8	5161.5 5815.8	5161.5 5625.2	5161.5 5725.8
Lat. - 26.8°	Lat. - 24.0°	Lat. - 23.9°	Lat. - 24.2°	Lat. - 26.8°
Greenwich No. 2169a.	Greenwich No. 2169.	Greenwich No. 2176a.	Greenwich No. 2176.	Greenwich No. 2179a.
1891, January 22.	1891, January 26.	1891, January 30.	1891, January 31.	1891, February 12.
F—b b—D	F—b b—D	F—b b—D	F—b b—D	F—b b—D
4877.6 5246.0	4877.5 5246.0	4881.0 5246.0	(5) 4949.2 (1) 5246.0	(4) 4938.5 (2) 5191.6 d
4945.4 5287.5	4949.2 5287.5	4949.2 5249.5	(4) 5035.2 (2) 5292.0	(6) 4949.2 (1) 5234.0
4945.8 5496.5	5035.0 5465.6	4993.1 5364.0	(6) 5112.0 (5) 5364.0	(1) 5035.0 t (3) 5234.0
5035.2 5577.6	5071.8 5577.6	5035.2 5480.0	(3) 5126.5 (6) 5480.0	(2) 5072.0 (4) 5396.0
5071.8 5674.3	5112.0 5674.3	5072.0 5632.5	(2) 5138.5 (3) 5577.6	(3) 5083.3 (5) 5581.0
5138.5 5725.8	5161.5 5725.8	5726.0	(1) 5161.5 (4) 5725.8	(5) 5128.5 (6) 5351.0
5161.5				5726.0
Lat. - 27.0°	Lat. - 27.8°	Lat. - 27.9°	Lat. - 27.8°	Lat. - 15.6°

Greenwich No. 2179a.		Greenwich No. 2179a.		Greenwich No. 2193.		Greenwich No. 2193.		Greenwich No. 2195a.	
1891. February 13.		1891. February 16.		1891. March 23.		1891. March 24.		1891. March 31.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
(5) 4949.2	(1) 5191.6	4938.5 t	5191.6 d	4938.5	5190.5		5190.5	4902.5	5198.0
(6) 4993.0	(2) 5194.1 d	4949.2	5287.5	4949.2	5191.5		5191.5	4993.0	5272.5
(4) 5035.3 t	(4) 5287.5	4993.0	5396.0	5019.3	5287.5	Cloudy.	5287.5	5016.8	5287.5
(1) 5112.0	(5) 5469.5	5035.3 t	5469.5	5035.5 t	5382.3		5465.6	5060.0	5378.5
(2) 5115.0	(3) 5542.0	5112.0	5577.5	5072.0	5506.0			5115.0	5465.5
(3) 5161.5	(6) 5577.5	5161.5	5725.8	5158.5	5623.0			5147.0	5632.0
4946.0 d									
Lat. + 15.6°		Lat. + 15.6°		Lat. + 19.4°		Lat. + 19.4°		Lat. + 19.3	
Greenwich No. 2195a.		Greenwich No. 2195a.		Greenwich No. 2195a.		Greenwich No. 2204a.		Greenwich No. 2204a.	
1891. April 1.		1891. April 6.		1891. April 8.		1891. April 23.		1891. April 24.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
4923.3	5246.0	(4) 4902.3	(1) 5194.0	(5) 4902.3	(1) 5194.0	4902.5	5246.0 d	4902.5	5246.0 d
4929.4	5366.4	(5) 4938.5	(2) 5246.0	(4) 4949.2	(2) 5287.5	4962.0	5352.5	4949.2	5352.5
4949.2	5465.6	(2) 4993.0	(3) 5382.0	(3) 4961.8	(4) 5465.6	4993.0	5364.0	4962.0	5364.0
4962.0		(6) 5072.0	(6) 5469.5	(2) 4993.0	(3) 5531.5	5035.0 t	5542.0	4993.0	5542.0
4996.0		(3) 5112.0	(4) 5531.5	(6) 5072.0	(5) 5577.5	5110.0	5623.0	5112.0	5640.0
5035.3		(1) 5161.5	(5) 5640.0	(1) 5161.5	(6) 5640.0	5161.5	5730.5	5161.5	5730.5
5161.5									
Lat. + 19.5°		Lat. + 19.5°		Lat. + 19.5°		Lat. + 19.3		Lat. + 19.8°	
Greenwich No. 2204a.		Greenwich No. 2206a.		Greenwich No. 2204a.		Greenwich No. 2206a.		Greenwich No. 2211a.	
1891. April 27.		1891. April 27.		1891. April 28.		1891. April 28.		1891. May 6.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
4902.5	5232.0	4923.0	5226.0	4875.0	5233.5	4949.2	5246.0 d	4949.2	5224.0
4962.0	5254.0	4978.0	5229.0	4949.2	5246.0 d	4978.0	5249.5	4993.0	5246.0 d
4996.0	5316.0	5011.0	5306.5	4993.0	5364.0	4990.0	5364.0	5021.5	5480.0
5022.0	5455.0	5039.5	5378.0	5112.0	5396.0	4993.0	5382.0	5072.0	5545.6
5107.0	5502.6	5115.0	5623.0	5133.0	5542.0	5090.0	5542.0	5112.0	5640.0
5161.5	5762.0	5161.5	5730.5	5161.5	5681.5	5161.5	5681.4	5161.5	5730.5
					5730.5 5784.6 D lines		5730.5	4875.0	
Lat. - 20.1°		Lat. + 24.2°		Lat. - 19.9°		Lat. + 24.3°		Lat. - 25.4	

Greenwich No. 2211a.		Greenwich No. 2211a.		Greenwich No. 2211a.		Greenwich No. 2211a.		Greenwich No. 2217a.	
1891. May 7.		1891. May 11.		1891. May 12.		1891. May 13.		1891. May 13.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
4875.0	5224.0	4902.5	5246.0	4949.2	5246.0	4875.0	5246.0	4902.5	5246.0
4949.2	5246.0	4949.2	5364.0	4993.5	5364.0	4902.5	5364.0	4941.4	5364.0
5021.5	5480.0	4993.0	5423.6	5072.0	5423.6	4949.2	5480.0 d	4972.0	5465.6
5072.0	5545.6	5072.0	5465.6	5161.5	5542.0	4993.0	5545.6	5035.5	5577.5
5133.0	5640.0	5164.4	5545.6	5164.4	5674.5	5072.0	5640.0	5112.0	5700.5
5161.5	5730.5	5164.8	5730.5	5164.8	5730.5	5161.5	5700.5	5161.5	5730.5
5364.0				4875.0		5730.5			
Lat. - 25°5'		Lat. - 24°3'		Lat. - 24°2'		Lat. - 24°1'		Lat. - 20°9'	
Greenwich No. 2211a.		Greenwich No. 2217a.		Greenwich No. 2211a.		Greenwich No. 2217a.		Greenwich No. 2216a.	
1891. May 14.		1891. May 14.		1891. May 15.		1891. May 15.		1891. May 15.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
4875.0	5246.0	4941.4	5246.0	4875.0	5246.0	4941.4	5246.0	4929.4	5246.0
4902.5	5364.0	4949.2	5364.0	4949.2	5364.0	4949.2	5364.0	4954.2	5249.6
4993.0	5480.0	4993.0	5465.0	5072.0	5480.0	4993.0	5465.0	4993.0	5465.6
5072.0	5545.6	5035.5	5577.5	5115.0	5545.6	5021.5	5577.5	5019.2	5545.6
5115.0	5674.5	5112.0	5640.0	5164.4	5674.5	5112.0	5640.0	5072.0	5700.5
5164.4	5730.5	5161.5	5730.5	5164.8	5730.5	5161.5	5730.5	5161.5	5790.0
5164.5									
Lat. - 23°5'		Lat. - 20°8'		Lat. - 23°1'		Lat. - 20°6'		Lat. + 16°2'	
Greenwich No. 2219a.		Greenwich No. 2217a.		Greenwich No. 2216a.		Greenwich No. 2224a.		Greenwich No. 2224a.	
1891. May 19.		1891. May 19.		1891. May 19.		1891. May 27.		1891. June 1.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
4929.4	5246.0	4941.3	5246.0	4929.4	5246.0	4902.5	5246.0	4902.5	5246.0
4972.0	5249.6	4949.2	5364.0	4949.2	5249.6	4949.2	5332.0	4929.2	5378.5
4993.0	5399.0	5021.5	5465.0	4993.0	5465.6	4993.0	5378.5	4993.0	5469.5
5072.0	5465.6	5072.0	5577.5	5019.2	5545.6	5072.0	5545.6	5019.2	5545.6
5099.0	5575.0	5112.0	5640.0	5072.0	5700.5	5112.0	5674.5	5072.0	5674.5
5161.5	5674.5	5161.5	5674.5	5161.5	5730.5	5161.5	5730.5	5161.5	5730.5
Lat. - 15°4'		Lat. - 20°7'		Lat. - 16°5'		Lat. - 15°8'		Lat. - 17°2'	

Greenwich No. 2231a.		Greenwich No. 2235a.		Greenwich No. 2234a.		Greenwich No. 2237.		Greenwich No. 2237a.	
1891. June 5.		1891. June 13.		1891. June 13.		1891. June 15.		1891. June 16.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
4875.0	5246.0	4875.0	5246.0	4875.0	5246.0	4875.0	Cloudy.	5019.0	Cloudy.
4902.0	5332.0	4902.5	5364.0	4909.5	5378.5	4902.5		5112.0	
4947.0	5364.0	4949.2	5465.6	4949.2	5465.6	4929.0			
5021.0	5577.5	4995.8	5577.5	4993.0	5545.4	4949.2			
5112.0	5700.5	5072.0	5674.5	5035.0	5678.0	5072.0			
5161.5	5730.5	5161.5	5730.5	5112.0	5730.5	5161.5			
Lat. + 23.5°		Lat. + 26.5°		Lat. + 21.0°		Lat. + 18.2°		Lat. + 17.8°	
Greenwich No. 2237a.		Greenwich No. 2237a.		Greenwich No. 2237a.		Greenwich No. 2237a.		Greenwich No. 2237a.	
1891. June 17.		1891. June 18.		1891. June 19.		1891. June 20.		1891. June 22.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
4875.0	5226.0	4902.0	5188.0	4875.0	5246.0	4875.0	5243.0	4908.7	5246.0
4993.0	5232.0	4923.0	5246.0	4902.5	5332.0	4902.5	5246.0	4996.0	5249.6
5068.0	5243.0	4996.0	5332.0	4946.0	5378.0	4996.0	5292.0	5026.0	5292.0
5072.0	5378.0	5068.0	5378.0	5072.0	5465.6	5060.0	5378.0	5027.0	5336.0
5121.0	5469.0	5115.0	5623.0	5090.0	5640.0	5096.0	5455.0	5043.1	5376.5
5161.5	5730.5	5161.5	5730.5	5115.0	5730.5	5161.5	5730.5	5060.0	5586.0
Lat. + 18.2°		Lat. + 18.0°		Lat. + 18.2°		Lat. + 18.3°		Lat. + 18.3°	
Greenwich No. 2242a.		Greenwich No. 2247a.		Greenwich No. 2242a.		Greenwich No. 2247b.		Greenwich No. 2247a.	
1891. June 22.		1891. June 26.		1891. June 26.		1891. June 27.		1891. June 27.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
4875.0	5246.0	4875.0	5246.0	4902.5	5300.0	4875.0	5246.0	4875.0	5246.0
4902.5	5332.0	4896.0	5300.0	4929.0	5469.0	4909.5	5378.5	4902.5	5300.0
4949.2	5465.0	4949.2	5465.6	4996.0	5577.5	4993.0	5465.6	4949.2	5378.5
5021.0	5577.5	4993.0	5545.0	5072.0	5640.0	5072.0	5577.5	4995.8	5545.4
5072.0	5700.5	5072.0	5640.0	5112.0	5700.5	5112.0	5674.5	5035.0	5674.5
5161.5	5730.5	5161.5	5700.5	5161.5	5730.5	5161.5	5730.5	5112.0	5730.5
Lat. + 13.9°		Lat. - 21.5°		Lat. + 14.3°		Lat. - 20.4°		Lat. - 21.4°	

Greenwich No. 2242a.		Greenwich No. 2247a.		Greenwich No. 2252a.		Greenwich No. 2252a.		Greenwich No. 2252b.	
1891. June 27.		1891. July 2.		1891. July 2.		1891. July 4.		1891. July 4.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
4884.0	5246.0	4875.0	5246.0	4884.0	5246.0	4903.0	5246.0	4903.0	5246.0
4902.5	5364.0	4902.5	5364.0	4902.5	5364.0	4949.2	5249.5	4920.0	5332.0
4949.2	5465.6	4949.2	5378.5	4988.0		4903.0	5364.0	4941.0	5378.0
4988.0	5577.5	5072.0	5577.5	4993.0		5040.0	5465.5	5019.0	5545.0
5072.0	5661.5	5112.0	5674.5	5072.0		5072.0	5577.5	5072.0	5640.0
5161.5	5730.5	5161.5	5730.5	5161.5		5112.0	5640.0	5112.0	5730.5
Lat. + 14.6°		Lat. - 21.5°		Lat. + 18.4°		Lat. + 18.6°		Lat. + 18.3°	
Greenwich No. 2253a.		Greenwich No. 2254a.		Greenwich No. 2252a.		Greenwich No. 2254a.		Greenwich No. 2255a.	
1891. July 11.		1891. July 11.		1891. July 11.		1891. July 16.		1891. July 16.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
4895.8	5209.4	4895.8	5246.0	4875.0	5209.4	4895.8	5246.0	4929.4	5194.0
4949.2	5246.0	4993.0	5249.6	4993.0	5246.0	4949.2	5249.6	4993.0	5246.0
5019.2	5249.6	5035.5	5513.5	5019.2	5249.6	5019.2	5465.6	5019.2	5300.0
5072.0	5513.2	5072.0	5577.5	5043.2	5364.0	5072.0	5513.5	5059.4	5376.5
5115.0	5542.0	5115.0	5674.5	5112.0	5465.6	5115.0	5577.5	5115.0	5577.5
5161.5	5730.5	5161.5	5730.5	5161.5	5640.0	5161.5	5640.0	5161.5	5730.5
Lat. + 15.7°		Lat. + 19.2°		Lat. + 18.6°		Lat. + 18.5°		Lat. + 15.1°	
Greenwich No. 2258a.		Greenwich No. 2255a.		Greenwich No. 2258a.		Greenwich No. 2258a.		Greenwich No. 2267a.	
1891. July 16.		1891. July 17.		1891. July 17.		1891. July 22.		1891. July 24.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
4875.0	5246.0	4929.4	5246.0	4929.4	5246.0	4875.0	5246.0	4902.5	5246.0
4993.0	5376.5	5019.2	5300.0	4949.2	5376.5	4929.4	5376.5	4949.2	5364.0
5019.2	5465.6	5059.4	5364.0	4993.0	5465.6	4949.2	5531.5	4993.0	5465.0
5059.4	5531.5	5072.0	5482.5	5019.2	5531.5	4993.0	5640.0	5072.0	5577.5
5072.0	5674.5	5115.0	5577.5	5072.0	5674.5	5019.2	5674.5	5112.0	5640.0
5161.5	5730.5	5161.5	5730.5	5161.5	5730.5	5161.5	5730.5	5161.5	5730.5
Lat. + 20.0°		Lat. + 15.3°		Lat. + 19.9°		Lat. + 20.1°		Lat. - 21.2°	

Greenwich No. 2272a.		Greenwich No. 2271.		Greenwich No. 2271.		Greenwich No. 2278a.		Greenwich No. 2277a.	
1891. August 1.		1891. August 3.		1891. August 4.		1891. August 5.		1891. August 5.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
4875.0	5209.4	4895.0	5194.0	4902.0	5246.0	4875	5246	4875	5246
4895.0	5246.0	4993.0	5246.0	4962.0	5233.0	4902	5267	4941	5267
4949.2	5249.6	5019.2	5376.0	4993.0	5364.0	4949	5364	4949	5378
4993.0	5364.0	5072.0	5465.0	5112.0		4993	5545	4993	5465
5019.2	5465.6	5115.0	5577.5	5133.0		5072	5640	5072	5640
5161.5	5730.5	5161.5	5730.5	5161.5		5112	5730	5112	5730
Lat. + 17.9°		Lat. - 18.2°		Lat. - 17.9°		Lat. + 23.4°		Lat. + 16.1°	
Greenwich No. 2271a.		Greenwich No. 2275a.		Greenwich No. 2278a.		Greenwich No. 2277a.		Greenwich No. 2278a.	
1891. August 5.		1891. August 5.		1891. August 7.		1891. August 7.		1891. August 8.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
4875	5246	4902	5246	4877	5246	4875		4887.5	5224
4941	5332	4929	5332	4902	5364	4939		4946	5246
5072	5364	4949	5378	4939	5378	4962		4979.5	5378
5091	5465	5040.0	5548	4946	5465	4993		5043.5	5545
5121	5577	5072.0	5700	4962	5674	5072		5072	5640
5161	5730	5112.0	5730	5072	5730	5161		5161	5730
Lat. - 18.5°		Lat. - 18.1°		Lat. + 24.0°		Lat. + 16.9°		Lat. + 24.4°	
Greenwich No. 2277a.		Greenwich No. 2278a.		Greenwich No. 2277a.		Greenwich No. 2278a.		Greenwich No. 2277a.	
1891. August 8.		1891. August 10.		1891. August 10.		1891. August 12.		1891. August 12.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
4902.0	5246.0	4877	5246	4939		4877	5194	4877	5194
4946.0	5364	4902	5378	4962		4939	5229	4902	5246
4977.5	5465	4939	5545	4993		4946	5246	4939	5364
4979.5	5545	4946	5640	5043	Cloudy.	5035 t	5545	4946	5454.5
4996	5577	5072	5674	5072		5072	5640	4962	5545
5072	5640	5161	5730	5161		5161	5730	5072	5730
Lat. + 17.3°		Lat. + 24.5°		Lat. + 17.6°		Lat. + 24.5°		Lat. + 17.7°	

Greenwich No. 2278.		Greenwich No. 2294a.		Greenwich No. 2293b.		Greenwich No. 2294a.		Greenwich No. 2297a.	
1891. August 14.		1891. September 4.		1891. September 4.		1891. September 7.		1891. September 7.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
4902	5246	4875.0	5246	4902.5	5246	4902.5	5246.0	4875.0	5246.0
4923	5364	4923.0	5364	4961.7	5392.3	4949.2	5364.0	4961.7	5392.3
4993	5489	4993.0	5489	4993.0	5421.6	4993.0	5489.0	4993.0	5469.6
5059	5536.5	5059.5	5536.5	5059.5	5536.5	5059.5	5536.5	5072.0	5536.5
5072	5640	5072.0	5640.0	5072.0	5640.0	5072.0	5640.0	5112.0	5739.5
5161	5739.5	5161.5	5739.5	5161.5	5739.5	5161.5	5739.5	5161.5	5865.0
Lat. = 24.4		Lat. = 25.5		Lat. = 22.7		Lat. = 26.1		Lat. = 28.7	
Greenwich No. 2298a.		Greenwich No. 2294a.		Greenwich No. 2297a.		Greenwich No. 2298a.		Greenwich No. 2294a.	
1891. September 7.		1891. September 8.		1891. September 8.		1891. September 8.		1891. September 9.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
4875.0	5246.0	4902.5	5246.0	4949.2	5246.0	4923.0	5209.5	4902.5	5246.0
4923.0	5246.0	4949.2	5364.0	4961.7	5392.3	4963.0	5246.0	4923.0	5364.0
4949.2	5421.6	4993.0	5489.0	4993.0	5469.6	5035.0	5421.6	5072.0	5469.5
4993.0	5536.5	5072.0	5536.5	5072.0	5489.0	5059.5	5536.5	5112.0	5489.0
5072.0	5674.5	5112.0	5739.5	5112.0	5739.5	5072.0	5739.5	5133.0	5745.5
5161.5	5739.5	5161.5	5739.5	5161.5	5865.0	5161.5	5865.0	5161.5	5739.5
Lat. = 12.4		Lat. = 25.9		Lat. = 28.8		Lat. = 12.6		Lat. = 26.9	
Greenwich No. 2297a.		Greenwich No. 2298a.		Greenwich No. 2294a.		Greenwich No. 2297a.		Greenwich No. 2298a.	
1891. September 9.		1891. September 9.		1891. September 10.		1891. September 10.		1891. September 10.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
4902.5	5246.0	4902.5	5209.5	4895.0	5246.0	4923.0	5246.0	4949.2	5209.5
4923.0	5392.3	4923.0	5246.0	4946.0	5364.0	4961.7	5392.3	4993.0	5246.0
4949.2	5469.4	4949.2	5421.6	4972.0	5469.5	4993.0	5465.0	5035.5	5421.6
4993.0	5536.5	5059.5	5545.4	5112.0	5536.5	5019.0	5469.4	5069.5	5536.5
5059.5	5640.0	5072.0	5640.0	5133.0	5640.0	5072.0	5545.4	5072.0	5739.5
5072.0	5739.5	5161.5	5865.0	5161.5	5739.5	5161.5	5739.5	5161.5	5865.0
Lat. = 28.8		Lat. = 12.8		Lat. = 25.7		Lat. = 29.0		Lat. = 13.1	

Greenwich No. 2294a.		Greenwich No. 2297a.		Greenwich No. 2299a.		Greenwich No. 2294a.		Greenwich No. 2297a.	
1891. September 11.		1891. September 11.		1891. September 11.		1891. September 12.		1891. September 12.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
4875.0	5246.0	4920.3	5246.0	4920.3	5209.5	4875.0	5246.0	4949.2	5246.0
4946.0	5364.0	4961.7	5392.3	4949.2	5246.0	4946.0	5364.0	4961.7	5392.3
4993.0	5469.5	4993.0	5421.6	5019.2	5419.5	5019.2	5419.5	4993.0	5421.6
5019.2	5531.6	5019.2	5469.4	5043.2	5489.0	5133.0	5536.5	5019.2	5489.0
5133.0	5536.5	5072.0	5730.5	5072.0	5531.6	5112.0	5640.0	5072.0	5730.5
5161.5	5730.5	5161.5	5865.0	5112.0	5674.5	5161.5	5730.5	5161.5	5865.0
				5161.5	5730.5				
Lat. + 25.5°		Lat. + 29.0°		Lat. + 14.4°		Lat. + 25.3°		Lat. + 28.5°	
Greenwich No. 2299a.		Greenwich No. 2299a.		Greenwich No. 2302a.		Greenwich No. 2302b.		Greenwich No. 2302c.	
1891. September 12.		1891. September 15.		1891. September 21.		1891. September 21.		1891. September 22.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
4929.3	5209.5	4949.2	5209.5	4902.4	5209.5	4875.0	5209.5	4902.4	5209.5
4949.2	5246.0	4993.0	5246.0	4941.3	5246.0	4946.0	5246.0	4949.2	5246.0
5043.2	5489.0	5043.2	5469.4	4993.0	5249.6	4993.0	5300.0	4993.0	5249.6
5072.0	5536.5	5072.0	5489.0	5072.0	5489.4	5037.0	5465.6	5072.0	5489.0
5112.0	5674.5	5112.0	5531.5	5073.7	5536.4	5072.0	5531.6	5073.7	5577.5
5161.5	5730.5	5161.5	5730.5	5161.5	5730.5	5161.5	5730.5	5161.5	5730.5
Lat. + 14.5°		Lat. + 15.2°		Lat. - 22.5°		Lat. - 23.1°		Lat. - 22.6°	
Greenwich No. 2302b.		Greenwich No. 2302a.		Greenwich No. 2306a.		Greenwich No. 2306.		Greenwich No. 2306.	
1891. September 22.		1891. September 24.		1891. September 24.		1891. September 28.		1891. September 29.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
4929.5	5209.5	4929.5	5209.5	4902.5	5246.0	4902.5	5209.5	4875.0	5209.5
4946.0	5246.0	4993.0	5246.0	4993.0	5249.6	4993.0	5246.0	4902.5	5246.0
5112.0	5249.6	5072.0	5249.6	5019.2	5300.0	5035.0	5249.6	4949.2	5249.6
5035.0	5390.0	5085.6	5583.7	5072.0	5372.0	5072.0	5431.6	4993.0	5431.6
5072.0	5465.6	5112.0	5640.0	5115.0	5495.0	5115.0	5545.5	5072.0	5531.6
5161.5	5730.5	5161.5	5730.5	5161.5	5730.5	5161.5	5730.5	5161.5	5730.5
					5865.6				
Lat. - 25.7°		Lat. - 22.5°		Lat. + 23.0°		Lat. - 23.0°		Lat. + 23.1°	

Greenwich No. 2311a.		Greenwich No. 2306.		Greenwich No. 2310.		Greenwich No. 2315a.		Greenwich No. 2315c.	
1891. September 30.		1891. September 30.		1891. September 30.		1891. October 7.		1891. October 7.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
4875.0	5246.0	4902.5	5209.5	4902.5	5246.0	4929.5	5209.5	4949.2	5246.0
4949.2	5300.0	4929.5	5246.0	4993.0	5249.6	4993.0	5246.0	4993.0	5300.0
5072.0	5364.0	4993.0	5249.6	5035.0 t	5431.6	5019.2	5249.6	5019.2	5465.6
5112.0	5431.6	5019.2	5465.6	5072.0	5531.6	5072.0	5364.0	5035.0	5536.5
5133.0	5577.5	5072.0	5531.6	5115.0	5689.2	5112.0	5577.5	5072.0	5640.0
5161.5	5674.5	5112.0	5640.0	5161.5	5730.5	5161.5	5640.0	5161.5	5730.5
		5161.5	5730.5						
Lat. - 26°6'		Lat. + 23°2'		Lat. - 25°7'		Lat. - 14°4'		Lat. - 15°3'	
Greenwich No. 2315a.		Greenwich No. 2315c.		Greenwich No. 2315b.		Greenwich No. 2318a.		Greenwich No. 2318a.	
1891. October 8.		1891. October 8.		1891. October 8.		1891. October 12.		1891. October 17.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
4875.0	5209.5	4902.5	5246.0	4875.0	5246.0	4875.0	5246.0	4875.0	5246.0
4962.0	5246.2	4949.2	5249.6	4993.0	5249.6	4993.0	5249.6	4975.0	5249.2
4993.0	5254.0	4988.0	5300.0	5019.2	5287.5	5072.0	5300.0	4975.8	5329.0 d
5072.0	5364.0	5019.2	5465.6	5072.0	5489.0	5019.2	5465.6	4993.5	5364.0 d
5112.0	5536.5	5072.0	5583.6	5115.0	5545.5	5112.0	5489.0	5072.0	5469.5
5161.5	5648.0	5161.5	5730.5	5161.5	5730.5	5161.5	5674.5	5115.0	5686.0
	5730.5							5161.5	
Lat. - 15°0'		Lat. - 15°3'		Lat. - 15°4'		Lat. + 14°1'		Lat. + 14°2'	
Greenwich No. 2323a.		Greenwich No. 2325b.		Greenwich No. 2325a.		Greenwich No. 2328a.		Greenwich No. 2328a.	
1891. October 17.		1891. October 20.		1891. October 20.		1891. October 28.		1891. October 29.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
4875.0	5246.0	4875.0	5209.5	4895.7	5246.0	4875.0	5246.0	4875.0	5246.0
4896.0	5249.6	4949.2	5246.0	4944.0	5249.2	4993.0	5249.6	4929.5	5249.6
4993.0	5300.0	4993.0	5469.5	4993.0	5364.0 d	5038.0 t	5300.0	4993.0	5300.0
5019.0	5469.5	5072.0	5489.0	5072.0	5469.5	5072.0	5370.5	5019.2	5469.5
5072.0	5577.5	5112.0	5583.7	5115.0	5489.0	5112.0	5469.5	5112.0	5725.8
5161.5	5674.5	5161.5	5674.5	5161.5	5730.5	5161.5	5725.8	5161.5	5730.5
			5730.5				5730.5		
Lat. - 25°6'		Lat. - 17°2'		Lat. - 15°7'		Lat. - 17°7'		Lat. - 18°3'	

Greenwich No. 2328a.		Greenwich No. 2328a.		Greenwich No. 2350a.		Greenwich No. 2350a.		Greenwich No. 2350a.	
1891. October 30.		1891. October 31.		1891. November 21.		1891. November 25.		1891. November 26.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
4895·8	5246·0	4895·8	5246·0		5246·0		5246·0	4875·0	
4944·0	5300·0	4944·0	5300·0		5249·6		5249·6	4993·0	
4993·0	5431·8	4993·0	5469·5	Cloudy.	5431·6	Cloudy.	5469·5	5035·0	Cloudy.
5019·2	5469·5	5019·2	5531·5		5469·5		5489·0	5072·0	
5072·0	5531·5	5072·0	5725·8		5577·5		5577·5	5112·0	
5112·0	5725·8	5112·0	5730·5		5730·5		5730·5	5161·5	
	5730·5								
Lat. + 17·7°		Lat. + 17·8°		Lat. + 19·4°		Lat. + 18·4°		Lat. + 18·7°	
Greenwich No. 2350a.		Greenwich No. 2365.		Greenwich No. 2364.		Greenwich No. 2373a.		Greenwich No. 2369c.	
1891. November 27.		1891. December 16.		1891. December 16.		1891. December 28.		1891. December 28.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
4875·0	5209·5	4875·0	5209·5	4921·2	5246·0	4875	5246	4895	5246
4949·4	5246·0	4949·2	5246·0	4944·0	5249·6	4949	5249	4944	5300
5043·3	5489·0	4993·0	5249·6	4949·4	5364·0	4993	5300	4993	5469
5072·0	5545·6	5019·2	5304·0	5072·0	5465·6	5072	5465	5072	5545
5112·0	5726·0	5072·0	5469·5	5112·0	5577·5	5112	5545	5112	5726
5158·5	5730·5	5112·0	5726·0	5161·5	5730·5	5161	5730	5161	5730
			5730·5						
Lat. + 18·8°		Lat. - 20·0°		Lat. - 20·0°		Lat. - 11·1°		Lat. + 28·5°	
Greenwich No. 2373a.		Greenwich No. 2376a.		Greenwich No. 2384a.		Greenwich No. 2384a.		Greenwich No. 2376a.	
1891. December 29.		1891. December 31.		1892. January 2.		1892. January 4.		1892. January 4.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
4875	5246	4875		4875	5246	4884	5201	4875	5246·0
4949	5249	4921		4939	5300	4919	5246	4896	5249
4993	5300	4949	Cloudy	4993	5455	4993	5300	4993	5300
5072	5304	4993		4996	5545	5072	5455	5072	5469
5112	5545	5072		5072	5685	5112	5526	5115	5584
5161	5730	5161		5161	5730	5161	5730	5161	5730
Lat. - 10·5°		Lat. + 20·9°		Lat. - 16·3°		Lat. - 16·9°		Lat. + 21·0°	

Greenwich No. 2370a.		Greenwich No. 2390a.		Greenwich No. 2405a.		Greenwich No. 2408a.		Greenwich No. 2408a.	
1892. January 8.		1892. January 15.		1892. January 25.		1892. January 25.		1892. February 2.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
	5209.5	4875.0	5209.5	4875.0	5209.5	4882.6	5246.0	4902.5	
	5246.0	4944.0	5246.0	4944.0	5246.0	4896.0	5431.6	4949.5	
	5431.6	4993.0	5431.6	4975.0	5469.5	4949.2	5469.5	4996	
	5444.2	5028.9	5489.0	4975.8	5515.6	4993.0	5515.6	5072	
	5489.0	5112.0	5576.3	4993.0	5583.7	5072.0	5577.5	5115	
	5730.5	5161.5	5725.8	5072.0	5726.0	5112.0	5782.6	5161	
				5112.0	5730.5				
Lat. + 21.1		Lat. - 25.7		Lat. + 18.6		Lat. - 15.2		Lat. - 16.2	
Greenwich No. 2416a.		Greenwich No. 2421a.		Greenwich No. 2421a.		Greenwich No. 2421a.		Greenwich No. 2421a.	
1892. February 5.		1892. February 5.		1892. February 13.		1892. February 13.		1892. February 16.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5034.4	5209.5	4875.0	5246.0	4875.0	5209.5	4875.0	5209.5	4875.0	5209.5
5035.2	5246.0	5035.2	5246.0	4903.0	5246.0	4949.2	5246.0	4988.2	5246.0
5035.8	5249.6	5112.0	5254.2	5034.6	5249.6	4993.0	5249.6	4993.0	5249.6
5037.6	5269.5	5133.0	5659.5	5035.2	5345.0	5035.2	5345.0	5035.2	5345.0
5038.2	5469.5	5136.8	5726.5	5035.8	5431.6	5038.0	5431.6	5112.0	5431.6
5038.7	5726.5	5161.5	5730.0	5037.6	5529.6	5161.5	5469.5	5158.5	5513.3
5112.0	5730.0	5164.3		5038.2	5726.5	5161.5	5529.6	5161.5	5726.5
5161.5				5038.7	5730.0		5726.5		5730.0
				5161.5			5730.0		D ₁ & D ₂
				5164.5					
Lat. + 22.7		Lat. - 29.0		Lat. - 29.2		Lat. - 29.2		Lat. - 28.1	
Greenwich No. 2421a.		Greenwich No. 2421a.		Greenwich No. 2421a.		Greenwich No. 2427.		Greenwich No. 2421a.	
1892. February 16.		1892. February 17.		1892. February 17.		1892. February 17.		1892. February 18.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
4875.0	5246.0	4875.0	5209.5	4875.0	5209.5	4949.2	5209.5	4875.0	5209.5
4949.2	5249.6	4993.0	5246.0	4949.2	5246.0	5025.6	5246.0	4949.2	5246.0
5035.2	5431.6	5035.2	5249.6	4993.0	5249.6	5030.0	5249.6	4993.0	5249.6
5112.0	5513.3	5072.0	5254.2	5035.2	5254.2	5035.2	5254.2	5030.0	5254.2
5038.5	5726.5	5112.0	5300.0	5112.0	5513.2	5072.0	5296.1	5035.2	5300.0
5161.5	5730.0	5161.5	5431.6	5158.5	5515.6	5112.0	5300.0	5072.0	5431.6
			5513.2	5161.5	5726.5		5431.6	5112.0	5513.2
			5515.6		5730.0		5726.5	5161.5	5515.6
			5726.5				5730.0		5726.5
			5730.0						5730.0
Lat. - 28		Lat. - 28.5		Lat. - 28.5		Lat. - 10.1		Lat. - 30.1	

Greenwich No. 2427.		Greenwich No. 2431a.		Greenwich No. 2428b.		Greenwich No. 2434a.		Greenwich No. 2434c.	
1892. February 18.		1892. February 18.		1892. February 18.		1892. February 22.		1892. February 22.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
4875.0	5209.5	4875.0	5209.5	4875.0	5209.5	5209.5		5209.5	
4929.4	5246.0	4993.0	5246.0	4929.4	5246.0	5246.0		5246.0	
4993.0	5249.6	5030.0	5249.6	4994.0	5249.6	5249.6		5249.6	
5030.0	5300.0	5035.2	5254.2	5019.2	5254.2	Cloudy	5254.2	Cloudy	5254.2
5035.2 t	5345.0	5072.0	5279.5	5035.2	5431.6		5296.0		5300.0
5072.0 d	5431.6	5112.0	5393.5	5072.0	5513.2		5300.0		5431.6
5161.5	5513.2	5158.5	5431.6	5158.5	5726.5	5431.6		5515.6	
	5683.5	5161.5	5481.6	5161.5	5730.0	5515.6		5687.4	
	5726.5		5513.2			5726.5		5726.5	
	5730.0		5726.5			5730.0		5730.0	
			5730.0						
Lat. + 9.6°		Lat. + 19.5°		Lat. + 14.4°		Lat. + 24.3°		Lat. + 24.5°	
Greenwich No. 2431a.		Greenwich No. 2440a.		Greenwich No. 2440a.		Greenwich No. 2440a.		Greenwich No. 2440a.	
1892. February 22.		1892. March 7.		1892. March 9.		1892. March 12.		1892. March 14.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
	5246.0	4993.0	5246.0	4875.0	5209.5	4875.0	5209.5	4875.0	5209.5
	5249.6	5038.0 t	5249.6	4993.0	5246.0	4993.0	5246.0	4975.0	5246.0
Cloudy	5254.2	5072.0 d	5254.5	5038.0 t	5249.6	5038.0 t	5249.6	4993.0	5249.6
	5431.6	5112.0	5300.0	5072.0 d	5254.2	5112.0	5254.2	5030.0	5254.2
	5434.6	5158.5	5431.6	5115.0	5300.0	5158.5	5300.0	5072.0 d	5300.0
	5435.5	5161.5	5513.3	5158.5	5431.6	5161.5	5499.5	5112.0	5431.6
	5513.2		5726.5	5161.5	5515.6		5515.6		5515.6
	5575.0		5730.0		5726.5		5726.5		5726.5
	5687.4				5730.0		5730.0		5730.0
	5726.5								
	5730.0								
Lat. + 19.4°		Lat. - 28.8°		Lat. - 28.7°		Lat. - 28.5°		Lat. - 28.3°	
Greenwich No. 2443a.		Greenwich No. 2448a.		Greenwich No. 2448a.		Greenwich No. 2451a.		Greenwich No. 2448a.	
1892. March 16.		1892. March 17.		1892. March 18.		1892. March 18.		1892. March 21.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
4875.0	5209.5		5209.5	4949.2	5246.0	4993.0	5209.5	4993.0	5246.0
4975.0	5246.0		5246.0	4993.0	5249.6	4995.9	5246.0	4995.9	5249.6
5035.0 t	5249.6		5249.6	4995.9	5254.2	5030.0	5249.6	5019.2	5254.2
5072.0 d	5254.2	Cloudy	5254.2	5019.2	5431.6	5072.0	5254.2	5072.0	5431.6
5112.0	5431.6		5431.6	5072.0 d	5469.5	5112.0	5300.0	5112.0	5726.5
5161.5	5515.6		5469.5	5112.0	5726.5	5164.2	5431.6	5161.5	5730.0
	5571.6		5726.5	5161.5	5730.0		5513.3		
	5726.5		5730.0				5516.5		
	5730.0						5726.5		
							5730.0		
Lat. + 8.8°		Lat. + 9.3°		Lat. + 8.9°		Lat. - 15.7°		Lat. + 9.9°	

Greenwich No. 2451a.		Greenwich No. 2451b.		Greenwich No. 2451b.		Greenwich No. 2451c.		Greenwich No. 2451d.	
1892. March 21.		1892. March 26.		1892. March 26.		1892. March 26.		1892. March 30.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
4993.0	5209.5	4993.0	5209.5	4993.0	5246.0	4993.0	5209.5	4875	5205.4
5019.0	5246.0	5035.2 t	5246.0	5035.2 t	5249.6	5019.5	5246.0	4993	5207.4
5030.0	5249.6	5112.0	5249.6	5043.2	5254.2	5035.2 t	5249.6	5043	5209.5
5072.0 d	5254.2	5115.0	5254.2	5072.0	5431.6	5072.0	5254.2	5072	5246.0
5112.0	5726.5	5158.5	5674.5	5112.0	5726.5	5096.0	5300.0	5158.5	5249.6
5164.2	5730.0	5164.2	5678.0	5158.5	5730.0	5112.0	5726.5	5164	5254.2
			5726.5 5730.0				5730.0		5697.4 5726.5 5730.0
Lat. - 15.7°		Lat. - 15.8°		Lat. + 27.8°		Lat. + 29.0°		Lat. + 26.4°	
Greenwich No. 2466a.		Greenwich No. 2462a.		Greenwich No. 2466a.		Greenwich No. 2466a.		Greenwich No. 2466a.	
1892. March 31.		1892. March 31.		1892. April 2.		1892. April 4.		1892. April 5.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
4993.0	5209.5	4993.0	5209.5	4993.0 d	5209.5	5049.2	5209.5	4993.0	5209.5
5035.2 t	5246.0	5043.0	5246.0	5072.0 d	5246.0	5072.0 d	5246.0	5071.8	5246.0
5043.0	5249.6	5072.0 d	5249.6	5112.0	5249.6	5112.0	5249.6	5072.0	5249.6
5072.0	5254.2	5112.0	5254.2	5115.0	5254.2	5116.0	5300.0	5112.0	5393.6
5158.5	5431.6	5158.5	5726.5	5158.5	5300.0	(Double less re- frangible than)	5726.5	(Double less re- frangible than)	5726.0
5164.0	5726.5	5164.0	5730.0	5164.0	5431.6		5730.0		5730.5
	5730.0				5513.3 5515.6 5726.5 5730.0		4988.0 4993.0 5043.0		5431.6 5469.5 5786.8
Lat. - 11.5°		Lat. - 17.9°		Lat. - 11.7°		Lat. - 12.0°		Lat. - 12.3°	
Greenwich No. 2466a.		Greenwich No. 2466a.		Greenwich No. 2466a.		Greenwich No. 2477a.		Greenwich No. 2466a.	
1892. April 6.		1892. April 7.		1892. April 8.		1892. April 8.		1892. April 9.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5071.8	5209.5	5071.8	5209.5	4993.0	5209.5	5019.0	5246.0	4921.2	5246.0
5072.0	5246.0	5072.0	5246.0	5019.2	5246.0	5051.0	5246.2	5019.2	5246.2
5089.0	5246.2	5089.0	5246.2	5051.0	5246.2	5086.0	5249.6	5086.0	5249.6
5112.0	5249.6	5112.0	5249.6	5112.0	5697.4	5087.0	5431.6	5087.0	5515.6
(Double less re- frangible than)	5726.0	5158.5	5726.0	5144.5	5726.0	5112.0	5496.6	5112.0	5726.0
	5730.5	5159.2	5730.5	5159.2	5730.5	5159.2	5730.5	5159.2	5730.5
					5300.0 5393.6 5431.6 5515.6 5681.5				
Lat. - 12.0°		Lat. - 12.1°		Lat. - 13.0°		Lat. + 13.0°		Lat. - 12.7°	

Greenwich No. 2477a.		Greenwich No. 2478a.		Greenwich No. 2479a.		Greenwich No. 2477a.		Greenwich No. 2481a.	
1892. April 9.		1892. April 11.		1892. April 11.		1892. April 11.		1892. April 19.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
4898.8	5224.2	4921.2	5224.2	4961.6	5224.2	5019.2	5246.0	5059.6	5209.5
5019.2	5224.6	4993.0	5224.6	5019.2	5224.6	5051.0	5246.2	5087.0	5246.0
5086.0	5396.0	5019.2	5249.6	5086.0	5249.6	5075.8	5249.6	5088.3	5246.2
5087.0	5515.6	5051.0	5254.2	5087.0	5254.2	5112.0	5661.6	5112.0	5249.6
5112.0	5616.0	5112.0	5661.6	5112.0	5482.5	5116.0	5726.0	5116.0	5396.0
5159.2	5726.0	5159.2	5657.6	5159.2	5661.6	5159.2	5730.5	5159.2	5431.6
Lat. + 13.1		Lat. + 16.7		Lat. - 20.3		Lat. - 13.5		Lat. + 11.4	
Greenwich No. 2484a.		Greenwich No. 2481a.		Greenwich No. 2486.		Greenwich No. 2486.		Greenwich No. 2487a.	
1892. April 19.		1892. April 21.		1892. April 21.		1892. April 23.		1892. April 23.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5019.2	5246.0	5019.2	5249.6	5043.0	5224.2	5071.8	5209.5	5043.0	5246.0
5043.0	5246.2	5059.6	5254.2	5086.0	5224.7	5072.0	5219	5071.8	5246.2
5112.0	5259.5	5086.0	5396.0	5087.0	5249.6	5086.0	5249.6	5072.0	5249.6
5116.0	5515.6	5087.0	5431.6	5112.0	5254.2	5087.0	5254.2	5123.2	5254.2
5159.2	5725.8	5112.0	5725.8	5159.2	5515.6	5112.0	5515.6	5161.5	5725.8
5162.0	5730.5	5159.2	5730.5	5164.2	5725.8	5159.2	5725.8	5162.0	5730.5
Lat. - 26.5		Lat. + 11.2		Lat. + 11.9		Lat. + 12.5		Lat. - 29.5	
Greenwich No. 2485a.		Greenwich No. 2492a.		Greenwich No. 2491a.		Greenwich No. 2492a.		Greenwich No. 2491a.	
1892. April 23.		1892. April 26.		1892. April 26.		1892. April 27.		1892. April 27.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5019.2	5209.5	5055.5	5209.5	5071.8	5209.5	5055.5	5246.0	5087.0	5246.0
5086.0	5249.6	5056.0	5246.0	5072.0	5246.0	5056.0	5246.2	5088.3	5246.2
5087.0	5254.2	5112.0	5246.2	5112.0	5246.2	5116.0	5249.6	5112.0	5259.5
5123.2	5300.0	5116.0	5249.6	5116.0	5431.6	5123.2	5259.5	5116.0	5431.6
5159.2	5396.0	5159.2	5725.8	5117.5	5725.8	5159.2	5725.8	5123.2	5725.8
5161.5	5515.6	5162.0	5730.5	5159.0	5730.5	5162.0	5730.5	5162.0	5730.5
Lat. - 13.2		Lat. - 18.1		Lat. + 17.2		Lat. - 18.6		Lat. - 16.7	

Greenwich No. 2492a.		Greenwich No. 2496a.		Greenwich No. 2498a.		Greenwich No. 2507.		Greenwich No. 2496b.	
1892. April 30.		1892. April 30.		1892. May 6.		1892. May 6.		1892. May 6.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5085.0	5218.8	5061.2	5218.8	5085.0	5218.8	5092.0	5209.5	5085.0	5218.8
5085.6	5259.5	5092.0	5459.8	5085.6	5495.8	5093.0	5218.8	5085.6	5259.5
5092.0	5307.4	5093.0	5461.0	5116.0	5513.3	5116.0	5303.0	5092.0	5513.3
5093.0	5425.8	5116.0	5513.3	5118.0	5670.5	5117.5	5416.0	5093.0	5670.5
5116.0	5459.8	5156.0	5670.5	5156.0	5725.8	5118.0	5725.8	5116.0	5725.8
5156.0	5735.0	5159.5	5735.0	5159.5	5730.5	5159.5	5730.5	5156.0	5735.0
5159.5								5159.5	
Lat. - 18.1°		Lat. - 24.0°		Lat. - 12.7°		Lat. + 18.9°		Lat. - 25.4°	
Greenwich No. 2498a.		Greenwich No. 2507.		Greenwich No. 2496b.		Greenwich No. 2498a.		Greenwich No. 2507.	
1892. May 7.		1892. May 7.		1892. May 7.		1892. May 9.		1892. May 9.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5085.0	5218.8	5092.0	5218.8	5085.0	5209.5	5085.0	5209.5	5092.0	5218.8
5085.6	5259.5	5093.0	5307.4	5085.6	5218.8	5085.6	5218.8	5093.0	5246.0
5116.0	5303.0	5116.0	5513.3	5116.0	5425.8	5116.0	5513.3	5112.0	5246.2
5117.5	5725.8	5117.5	5725.8	5156.0	5513.3	5123.2	5725.8	5116.0	5425.8
5156.0	5730.5	5118.0	5730.5	5159.5	5725.8	5156.0	5730.5	5117.5	5725.8
5159.5	5735.0	5159.5	5735.0	5162.0	5730.5	5159.5	5735.0	5159.5	5730.5
Lat. - 12.6°		Lat. - 19.1°		Lat. - 25.4°		Lat. - 12.4°		Lat. - 19.1°	
Greenwich No. 2498a.		Greenwich No. 2507.		Greenwich No. 2498a.		Greenwich No. 2515a.		Greenwich No. 2507.	
1892. May 10.		1892. May 10.		1892. May 11.		1892. May 11.		1892. May 11.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5092.0	5209.5	5112.0	5246.0	4964.4	5209.5	5085.0	5218.8	5085.0	5209.5
5093.0	5218.8	5116.0	5246.2	5061.2	5259.5	5085.6	5246.0	5085.6	5218.8
5112.0	5259.5	5117.5	5259.5	5116.0	5303.0	5092.0	5246.2	5092.0	5425.8
5116.0	5307.4	5118.0	5513.3	5117.5	5307.4	5093.0	5725.8	5093.0	5513.3
5156.0	5725.8	5159.5	5725.8	5159.5	5725.8	5156.0	5730.5	5117.5	5670.5
5159.5	5735.0	5162.0	5730.5	5162.0	5730.5	5159.5	5735.0	5118.0	5725.8
Lat. - 12.1°		Lat. - 19.0°		Lat. - 12.3°		Lat. - 13.8°		Lat. + 18.9°	

Greenwich No. 2507.		Greenwich No. 2515a.		Greenwich No. 2515a.		Greenwich No. 2515a.		Greenwich No. 2524a.	
1892. May 12.		1892. May 12.		1892. May 17.		1892. May 18.		1892. May 21.	
F — b	b — D	F — b	b — D	F — b	b — D	F — b	b — D	F — b	b — D
5061.2	5209.5	5085.0	5218.8	5061.2	5218.8	5061.2	5259.5	5092.0	5218.8
5085.0	5218.8	5085.6	5246.0	5092.0	5259.5	5092.0	5425.8	5093.0	5670.5
5085.6	5303.0	5092.0	5246.2	5093.0	5670.5	5093.0	5670.5	5116.0	5671.5
5116.0	5397.4	5093.0	5425.8	5116.0	5671.5	5113.8	5671.5	5117.5	5725.8
5117.5	5725.8	5116.0	5670.5	5156.0	5730.0	5116.0	5730.0	5156.0	5730.5
5159.5	5730.5	5156.0	5735.0	5159.5	5735.0	5156.0	5735.0	5159.5	5735.0
		5162.0							
Lat. + 19.0		Lat. - 13.8		Lat. - 14.0		Lat. - 14.2		Lat. + 14.9	
Greenwich No. 2515a.		Greenwich No. 2530a.		Greenwich No. 2524a.		Greenwich No. 2524a.		Greenwich No. 2534a.	
1892. May 21.		1892. May 23.		1892. May 23.		1892. May 25.		1892. May 25.	
F — b	b — D	F — b	b — D	F — b	b — D	F — b	b — D	F — b	b — D
5061.2	5259.5	5085.0	5425.8	5085.0	5218.8	5085.0	5425.8	5061.2	5218.8
5092.0	5425.8	5085.6	5625.8	5085.6	5425.8	5085.6	5625.8	5085.0	5246.0
5093.0	5670.5	5116.0	5670.5	5092.0	5670.5	5112.0	5670.5	5085.6	5246.2
5116.0	5671.5	5117.5	5671.5	5093.0	5671.5	5116.0	5671.5	5092.0	5670.5
5117.5	5725.8	5118.5	5730.0	5116.0	5730.0	5156.0	5730.0	5093.0	5671.5
5118.5	5730.5	5156.0	5735.0	5156.0	5735.0	5159.5	5735.0	5116.0	5735.0
		5159.5						5156.0	
Lat. - 12.5		Lat. + 10.3		Lat. + 15.6		Lat. - 15.8		Lat. - 18.7	
Greenwich No. 2534a.		Greenwich No. 2534a.		Greenwich No. 2534b.		Greenwich No. 2524a.		Greenwich No. 2543a.	
1892. May 26.		1892. May 28.		1892. May 28.		1892. May 28.		1892. May 30.	
F — b	b — D	F — b	b — D	F — b	b — D	F — b	b — D	F — b	b — D
5061.2		5085.0	5218.8	5112.0	5209.5	5061.2	5218.8	5061.2	5218.8
5092.0		5085.6	5425.8	5116.0	5259.5	5085.0	5259.5	5085.0	5259.5
5093.0		5116.0	5670.5	5117.5	5425.8	5085.6	5425.8	5085.6	5425.8
5116.0		5117.5	5671.5	5159.5	5625.8	5092.0	5513.3	5116.0	5513.3
5156.0		5118.5	5730.0	5156.0	5670.5	5093.0	5670.5	5156.0	5670.5
5159.5		5156.0	5735.0	5162.0	5671.5	5156.0	5671.5	5159.5	5671.5
		5159.5				5159.5			
Lat. - 18.3		Lat. - 18.5		Lat. - 18.4		Lat. - 16.0		Lat. - 9.6	

Greenwich No. 2534b.		Greenwich No. 2534a.		Greenwich No. 2543a.		Greenwich No. 2534a.		Greenwich No. 2534d.	
1892, May 30.		1892, May 30.		1892, June 1.		1892, June 1.		1892, June 1.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5092.0	5425.8	5085.0	5425.8	5085.0	5218.8	5085.0	5307.2	5061.2	5218.8
5093.0	5425.8	5085.6	5425.8	5085.6	5259.5	5085.6	5425.8	5085.0	5425.8
5100.5	5670.5	5087.0	5670.5	5116.0	5303.0	5116.0	5513.3	5085.6	5625.8
5116.0	5671.5	5116.0	5671.5	5146.8	5670.5	5156.0	5670.5	5116.0	5670.5
5156.0	5697.2	5156.0	5730.0	5156.0	5671.5	5159.5	5671.5	5156.0	5671.5
5159.5	5730.5	5162.0	5735.0	5162.0	5725.8	5162.0	5735.0	5159.5	5697.2
5162.0									
Lat. 18.0		Lat. 18.9		Lat. 10.1		Lat. 18.2		Lat. 21.7	
Greenwich No. 2543a.		Greenwich No. 2534a.		Greenwich No. 2543a.		Greenwich No. 2534a.		Greenwich No. 2543a.	
1892, June 3.		1892, June 3.		1892, June 4.		1892, June 4.		1892, June 7.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5061.2	5209.5	4964.5	5218.8	5085.0	5221.0	4964.5	5218.8	5085.0	5221.0
5116.0	5259.5	5061.2	5303.0	5085.6	5259.5	5061.2	5259.5	5085.6	5259.5
5117.5	5425.8	5116.0	5425.8	5110.5	5351.2	5112.0	5425.8	5112.0	5303.0
5118.5	5513.3	5156.0	5625.8	5116.0	5670.5	5116.0	5625.8	5116.0	5425.8
5156.0	5670.5	5159.5	5670.5	5156.0	5671.5	5156.0	5670.5	5156.0	5670.5
5159.5	5671.5	5162.0	5671.5	5162.0	5735.0	5159.5	5671.5	5162.0	5671.5
Lat. 9.8		Lat. 17.9		Lat. 9.6		Lat. 18.0		Lat. 9.5	
Greenwich No. 2548a.		Greenwich No. 2548a.		Greenwich No. 2548a.		Greenwich No. 2564a.		Greenwich No. 2560a.	
1892, June 7.		1892, June 9.		1892, June 10.		1892, June 17.		1892, June 17.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5085.0	5209.5	5061.2	5218.8	5061.2	5209.5	5061.2	5209.5	5085.0	5259.5
5085.6	5259.5	5116.0	5259.5	5116.0	5218.8	5112.0	5218.8	5085.6	5303.0
5092.0	5307.2	5125.6	5320.3	5125.6	5259.5	5116.0	5259.5	5092.0	5307.2
5093.0	5625.8	5156.0	5321.2	5156.0	5670.5	5156.0	5425.8	5093.0	5425.8
5156.0	5670.5	5159.5	5670.5	5159.5	5671.5	5159.5	5670.5	5116.0	5670.5
5159.5	5671.5	5162.0	5671.5	5162.0	5725.8	5162.0	5671.5	5156.0	5671.5
								5159.5	
Lat. 20.9		Lat. 21.2		Lat. 21.2		Lat. 19.6		Lat. 31.9	

Greenwich No. 2559a.	Greenwich No. 2560a.	Greenwich No. 2564a.	Greenwich No. 2562b.	Greenwich No. 2559.
1892. June 18.	1892. June 18.	1892. June 18.	1892. June 18.	1892. June 20.
F — b — b — D	F — b — b — D	F — b — b — D	F — b — b — D	F — b — b — D
5085.0 5221.2	5092.0 5259.5	5061.2 5259.5	5061.2 5425.8	5116.0 5259.5
5085.6 5259.5	5093.0 5625.8	5092.0 5459.5	5085.0 5459.5	5117.5 5425.8
5116.0 5303.0	5112.0 5488.9	5093.0 5460.8	5085.6 5460.8	5118.5 5459.5
5117.5 5425.8	5116.0 5489.7	5116.0 5625.8	5116.0 5670.5	5156.0 5625.8
5118.5 5670.5	5156.0 5670.5	5149.2 5670.5	5149.2 5671.5	5159.5 5670.5
5156.0 5671.5	5159.5 5671.5	5159.5 5671.5	5162.0 5735.0	5162.0 5671.5
5159.5				
Lat. + 25.2°	Lat. - 32.3°	Lat. - 20.0°	Lat. + 11.0°	Lat. + 25.0°
Greenwich No. 2560a.	Greenwich No. 2564a.	Greenwich No. 2562b.	Greenwich No. 2562b.	Greenwich No. 2564a.
1892. June 20.	1892. June 20.	1892. June 20.	1892. June 21.	1892. June 21.
F — b — b — D	F — b — b — D	F — b — b — D	F — b — b — D	F — b — b — D
5061.2 5237.0	5061.2 5397.6	5085.0 5237.0	5085.0 5221.2	5085.0 5237.0
5092.0 5425.8	5085.0 5425.8	5085.6 5425.8	5085.6 5237.0	5085.6 5425.8
5093.0 5459.5	5085.6 5459.5	5116.0 5459.5	5116.0 5425.8	5092.0 5459.5
5116.0 5489.7	5116.0 5625.8	5149.2 5460.8	5149.2 5625.8	5093.0 5460.5
5156.0 5670.5	5156.0 5670.5	5159.5 5670.5	5156.0 5670.5	5116.0 5670.5
5159.5 5671.5	5159.5 5671.5	5162.0 5671.5	5159.5 5671.5	5156.0 5671.5
				5159.5
Lat. - 32.1°	Lat. - 21.0°	Lat. + 10.7°	Lat. + 10.4°	Lat. - 21.0°
Greenwich No. 2564a.	Greenwich No. 2562b.	Greenwich No. 2567a.	Greenwich No. 2567a.	Greenwich No. 2565a.
1892. June 21.	1892. June 22.	1892. June 22.	1892. June 24.	1892. June 24.
F — b — b — D	F — b — b — D	F — b — b — D	F — b — b — D	F — b — b — D
5085.0 5237.0	5061.2 5221.0	5061.2 5237.0	5092.0 5221.0	5085.0 5218.8
5085.6 5425.8	5085.0 5259.5	5092.0 5259.5	5093.0 5237.0	5085.6 5397.6
5092.0 5459.5	5085.6 5425.8	5093.0 5425.8	5116.0 5425.8	5116.0 5425.8
5093.0 5460.5	5116.0 5459.5	5116.0 5459.5	5156.0 5459.5	5149.2 5625.8
5116.0 5670.5	5156.0 5670.5	5159.0 5670.5	5159.5 5670.5	5156.0 5670.5
5156.0 5671.5	5159.5 5671.5	5162.0 5671.5	5162.0 5671.5	5159.5 5671.5
5159.5				
Lat. - 21.0°	Lat. - 10.4°	Lat. + 9.8°	Lat. - 10.8°	Lat. + 11.5°

Greenwich No. 2566b.		Greenwich No. 2564c.		Greenwich No. 2567a.		Greenwich No. 2580a.		Greenwich No. 2581a.	
1892. June 24.		1892. June 24.		1892. June 27.		1892. July 4.		1892. July 4.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5061.2	5200.5	5061.2	5218.8	5092.0	5218.8	5061.2	5218.8	5085.0	5218.8
5116.9	5259.5	5062.5	5237.0	5093.0	5307.6	5116.0	5259.5	5085.6	5425.8
5117.5	5425.8	5085.0	5670.5	5116.0	5425.8	5140.2	5425.8	5116.0	5459.5
5118.5	5459.5	5085.6	5671.5	5156.0	5670.5	5156.0	5459.5	5156.0	5460.5
5159.5	5460.5	5116.0	5726.5	5159.5	5671.5	5159.5	5670.5	5159.5	5670.5
5162.0	5670.5	5143.0	5730.0	5162.0	5756.0	5162.0	5671.5	5162.0	5671.5
5671.5		5156.0							
Lat. + 10.8°		Lat. - 19.6°		Lat. + 11.4°		Lat. - 23.4		Lat. + 11.7	
Greenwich No. 2580a.		Greenwich No. 2581a.		Greenwich No. 2584a.		Greenwich No. 2580a.		Greenwich No. 2580a.	
1892. July 6.		1892. July 6.		1892. July 7.		1892. July 7.		1892. July 8.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5061.2	5218.8	5085.0	5218.8	5092.0	5218.8	5085.0	5218.8	5061.2	5459.5
5112.0	5259.5	5085.6	5425.8	5093.0	5425.8	5085.6	5259.5	5085.0	5460.5
5116.9	5425.8	5116.0	5459.5	5116.0	5670.5	5140.2	5425.8	5085.6	5670.5
5156.0	5459.5	5156.0	5460.5	5156.0	5671.5	5156.0	5459.5	5156.0	5671.5
5159.5	5460.5	5159.5	5670.5	5159.5	5726.0	5159.5	5460.5	5159.5	5726.0
5162.0	5670.5	5162.0	5671.5	5162.0	5730.0	5162.0	5670.5	5162.0	5730.0
5671.5						5671.5			
Lat. - 23.4		Lat. + 12.4°		Lat. + 12.1		Lat. - 22.8		Lat. - 22.6	
Greenwich No. 2581a.		Greenwich No. 2583a.		Greenwich No. 2586a.		Greenwich No. 2586a.		Greenwich No. 2586a.	
1892. July 8.		1892. July 8.		1892. July 21.		1892. July 22.		1892. July 23.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	b—D	F—b
5092.0	5218.8	5116.0	5218.8	(6) 4931.0	(1) 5209.3	(6) 4931.0	(1) 5209.3	(6) 4931.0	(1) 5209.3
5093.0	5259.5	5117.5	5425.8	(3) 5029.0	(2) 5300.0	(3) 5029.0	(2) 5300.0	(3) 5029.0	(2) 5300.0
5112.0	5670.5	5118.5	5670.5	(4) 5030.0	(3) 5459.5	(4) 5030.0	(3) 5459.5	(4) 5030.0	(3) 5459.5
5116.0	5671.5	5149.2	5671.5	(5) 5081.8	(4) 5460.6	(5) 5081.8	(4) 5460.6	(5) 5081.8	(4) 5460.6
5156.0	5726.0	5156.0	5726.0	(1) 5112.0	(5) 5670.5	(1) 5112.0	(5) 5670.5	(1) 5112.0	(5) 5670.5
5162.0	5730.0	5162.0	5730.0	(2) 5116.0	(6) 5671.5	(2) 5116.0	(6) 5671.5	(2) 5116.0	(6) 5671.5
5162.0									
Lat. - 12.1		Lat. - 31.6		Lat. - 9.4		Lat. - 9.6		Lat. - 9.4	

Greenwich No. 2599a.		Greenwich No. 2599a.		Greenwich No. 2599a.		Greenwich No. 2598a.		Greenwich No. 2599a.	
1892. July 26.		1892. July 27.		1892. July 28.		1892. July 28.		1892. July 29.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
4996	5218·8	5061	5209·5	4909·5	5209·5	5061	5300	4875	5209·5
5061	5300	5093	5218·8	5061	5219·5	5092	5426	5061	5219
5116	5307·6	5112	5259·5	5093	5259·5	5093	5648	5093	5259
5145·6	5460·6	5116	5670·0	5112	5300·0	5112	5670	5112	5670
5159	5670·5	5159	5725·8	5116	5671	5159	5726	5156	5730
5162	5730	5162	5730	5156	5740·8	5162·0	5730	5159	5735
Lat. + 14·4°		Lat. + 14·5°		Lat. + 14·9°		Lat. + 13·1°		Lat. + 15·1°	
Greenwich No. 2598a.		Greenwich No. 2601a.		Greenwich No. 2599a.		Greenwich No. 2611d.		Greenwich No. 2612.	
1892. July 29.		1892. July 29.		1892. July 30.		1892. August 4.		1892. August 4.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5092	5209·5	4909·5	5239·0	5166	b ₄	4865	5209	4909·5	5209·5
5093	5237·0	5061·0	5300·0		b ₂	4902	5296	4972	5300·0
5112	5319	5093·0	5425·0		b ₁	4949	5624	5061	5332
5125·6	5425	5116·0	5671·0	Cloudy.	5209	5072	5671	5072	5671
156	5671	5126·0	5702·5		5856·5	5108·7	5730	5116	5730
5159	5726	5161·5	5728			5112	5746·8	5156	5756
Lat. + 12·9°		Lat. + 10·9°		Lat. + 15·1°		Lat. + 10·8°		Lat. - 22·1°	
Greenwich No. 2611d.		Greenwich No. 2612.		Greenwich No. 2611d.		Greenwich No. 2611d.		Greenwich No. 2612.	
1892. August 5.		1892. August 5.		1892. August 6.		1892. August 8.		1892. August 8.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
4865	5209	4875	5279·6	4865	5209	5061	5209	5061	5221
4964·5	5227	5061	5295	4902	5296	5085	5259	5085	5259
5061	5300	5092	5425	4949	5332	5116·0	5459	5112	5425·7
5092·5	5396	5116	5489·7	5061	5671	5117·5	5670	5116	5671
5112	5674	5126	5671	5112	5730	5156	5671	5156	5730
5161·5	5730	5161	5730	5161	5756	5162	5730	5161	5756
Lat. + 10·9°		Lat. - 21·8°		Lat. + 10·7°		Lat. + 10·7°		Lat. - 22·3°	

Greenwich No. 2615a.		Greenwich No. 2622a.		Greenwich No. 2611d.		Greenwich No. 2615a.		Greenwich No. 2622a.	
1892. August 11.		1892. August 11.		1892. August 11.		1892. August 12.		1892. August 12.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5085.0	5221.2	5085.0	5425.8	5092.0	5218.8	5085.0	5221.8	5061.2	5489.0
5085.6	5300.0	5085.6	5459.5	5095.0	5300.0	5085.6	5300.0	5116.0	5489.5
5116.0	5459.5	5116.0	5460.5	5116.0	5459.5	5116.0	5425.8	5117.5	5459.5
5156.0	5460.5	5117.5	5625.8	5156.0	5460.5	5156.0	5459.5	5156.0	5460.5
5159.5	5670.5	5156.0	5670.5	5159.5	5670.5	5159.5	5460.5	5159.5	5670.5
5162.0	5671.5	5159.5	5671.5	5162.0	5671.5	5162.0	5670.5	5162.0	5671.5
							5671.5		
Lat. - 30.1		Lat. + 10.2		Lat. + 11.1		Lat. - 30.3		Lat. - 19.4	
Greenwich No. 2626a.		Greenwich No. 2622a.		Greenwich No. 2626a.		Greenwich No. 2622a.		Greenwich No. 2627a.	
1892. August 15.		1892. August 15.		1892. August 17.		1892. August 17.		1892. August 17.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5116.0	5218.8	5085.0	5218.8	5061.2	5218.8	5092.0	5218.8	5092.0	5218.8
5117.5	5300.0	5085.6	5425.8	5116.0	5221.2	5093.0	5221.2	5093.0	5425.8
5118.5	5459.5	5116.0	5459.5	5117.5	5459.5	5116.0	5425.8	5112.0	5459.5
5156.0	5460.5	5156.0	5460.5	5156.0	5460.5	5156.0	5625.8	5116.0	5460.5
5159.5	5670.5	5159.5	5670.5	5159.5	5670.5	5159.5	5670.5	5156.0	5489.0
5162.0	5671.5	5162.0	5671.5	5162.0	5671.5	5162.0	5671.5	5159.5	5489.5
Lat. - 17.8		Lat. + 9.9		Lat. - 18.2		Lat. - 9.9		Lat. - 23.0	
Greenwich No. 2622a.		Greenwich No. 2626a.		Greenwich No. 2627a.		Greenwich No. 2626a.		Greenwich No. 2627a.	
1892. August 20.		1892. August 20.		1892. August 20.		1892. August 22.		1892. August 22.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5085.0	5218.8	5116.0	5221.5	5085.0	5218.8	5085.0	5218.8	5116.0	5218.8
5085.6	5425.8	5117.5	5300.0	5085.6	5425.8	5085.6	5221.5	5117.5	5221.5
5116.0	5459.5	5118.5	5459.5	5116.0	5459.5	5116.0	5425.8	5118.5	5459.5
5156.0	5460.5	5156.0	5460.5	5156.0	5460.5	5156.0	5625.8	5156.0	5460.5
5159.5	5670.5	5159.5	5670.5	5159.5	5670.5	5159.5	5670.5	5159.5	5670.5
5162.0	5671.5	5162.0	5671.5	5162.0	5671.5	5162.0	5671.5	5162.0	5671.5
Lat. - 9.7		Lat. - 18.2		Lat. - 23.5		Lat. - 19.0		Lat. - 23.7	

Greenwich No. 2636a.		Greenwich No. 2638a.		Greenwich No. 2644a.		Greenwich No. 2643a.		Greenwich No. 2648a.	
1892. August 26.		1892. August 26.		1892. August 30.		1892. August 30.		1892. September 5.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5061.2	5459.5	5085.0	5459.5	5061.2	5459.5	5092.0	5459.5	5085.0	5218.8
5112.0	5460.5	5085.6	5460.5	5112.0	5460.5	5093.0	5460.5	5085.6	5221.2
5116.0	5670.5	5112.0	5670.5	5116.0	5670.5	5117.5	5670.5	5112.0	5670.5
5156.0	5671.5	5116.0	5671.5	5117.5	5671.5	5156.0	5671.5	5116.0	5671.5
5159.5	5726.0	5156.0	5726.0	5156.0	5726.0	5159.5	5726.0	5156.0	5726.0
5162.0	5730.0	5162.0	5730.0	5162.0	5730.0	5162.0	5730.0	5162.0	5730.0
Lat. + 12.8°		Lat. + 21.3°		Lat. - 22.2°		Lat. + 11.6°		Lat. - 19.5°	
Greenwich No. 2644a.		Greenwich No. 2643a.		Greenwich No. 2648a.		Greenwich No. 2653a.		Greenwich No. 2653a.	
1892. September 5.		1892. September 5.		1892. September 8.		1892. September 11.		1892. September 12.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5116.0	5459.5	5092.0	5459.5	5061.2	5459.5	5112.0	5218.8	5112.0	5218.8
5117.5	5460.5	5093.0	5460.5	5133.8	5460.5	5116.0	5221.2	5116.0	5221.2
5118.5	5670.5	5112.0	5670.5	5135.5	5670.5	5117.5	5459.5	5117.5	5459.5
5156.0	5671.5	5116.0	5671.5	5137.8	5671.5	5118.5	5460.5	5118.5	5460.5
5159.5	5726.0	5156.0	5726.0	5156.0	5726.0	5156.0	5670.5	5156.0	5670.5
5162.0	5730.0	5162.0	5735.0	5162.0	5730.0	5162.0	5671.5	5162.0	5671.5
Lat. - 23.7°		Lat. + 9.1°		Lat. - 19.5°		Lat. + 11.7°		Lat. + 11.4°	
Greenwich No. 2653a.		Greenwich No. 2653a.		Greenwich No. 2672a.		Greenwich No. 2675a.		Greenwich No. 2675a.	
1892. September 16.		1892. September 17.		1892. September 19.		1892. September 26.		1892. September 28.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5061.2	5218.8	5061.2	5670.5	5061.2	5670.5		5218.8	5133.8	5425.8
5085.0	5221.2	5085.0	5671.5	5092.0	5671.5		5221.2	5135.5	5459.5
5085.6	5425.8	5085.6	5726.5	5093.0	5698.9		5670.5	5137.5	5670.5
5156.0	5459.5	5156.0	5730.0	5156.0	5702.6		5671.5	5156.0	5671.5
5159.5	5670.5	5159.5	5735.0	5159.5	5726.5		5726.5	5159.5	5726.5
5162.2	5671.5	5162.2	5736.5	5162.0	5730.0		5730.0	5162.2	5730.0
Lat. + 11.8°		Lat. + 11.8°		Lat. - 14.6°		Lat. + 11.0°		Lat. - 11.0°	

Greenwich No. 2681b.		Greenwich No. 2685b.		Greenwich No. 2685a.		Greenwich No. 2685c.		Greenwich No. 2705a.	
1892. September 28.		1892. October 5.		1892. October 5.		1892. October 5.		1892. October 19.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5133·8	5459·5	5133·8	5425·8	5061·2	5459·5	5112·1	5425·8	5133·8	5218·8
5135·7	5670·5	5135·5	5428·3	5112·1	5460·5	5116·1	5459·5	5135·5	5221·2
5137·5	5671·5	5137·8	5670·5	5116·0	5670·5	5133·8	5670·5	5137·8	5670·5
5149·0	5726·5	5156·0	5671·5	5156·0	5671·5	5135·5	5671·5	5156·0	5671·5
5156·0	5730·0	5159·5	5726·5	5159·5	5726·5	5137·8	5730·0	5159·5	5726·5
5162·2	5736·5	5162·0	5730·0	5162·0	5730·0	5156·0	5736·5	5162·2	5730·0
Lat. + 13·8°		Lat. + 15·1°		Lat. + 14·3°		Lat. + 16·9°		Lat. - 22·0°	
Greenwich No. 2703b.		Greenwich No. 2716a.		Greenwich No. 2749a.		Greenwich No. 2770b.		Greenwich No. 2768a.	
1892. October 19.		1892. October 29.		1892. November 30.		1892. December 5.		1892. December 5.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5116·0	5218·8	5112·0	5218·8	5061·2	5218·8	5116·0	5218·8	5061·2	5218·8
5133·8	5221·2	5116·0	5425·8	5112·0	5459·5	5117·5	5459·5	5112·0	5425·8
5135·5	5670·5	5133·8	5459·5	5116·0	5460·5	5118·5	5460·5	5116·0	5459·5
5137·8	5671·5	5135·5	5460·5	5156·0	5670·5	5156·0	5670·5	5156·0	5460·5
5159·5	5726·5	5137·8	5670·5	5159·5	5671·5	5159·5	5671·5	5159·5	5670·5
5162·2	5730·0	5156·0	5671·5	5162·2	5730·0	5162·0	5736·5	5162·0	5671·5
Lat. + 8·6°		Lat. - 27·9		Lat. - 15·6°		Lat. - 21·8°		Lat. - 13·0°	
Greenwich No. 2760a.		Greenwich No. 2792b.		Greenwich No. 2792a.		Greenwich No. 2787.		Greenwich No. 2787a.	
1892. December 5.		1892. December 24.		1892. December 24.		1892. December 24.		1892. December 24.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5061·2	5218·8	504876·0	(1) 5200·3	(5) 4975	(1) 5200·3	(4) 4921·2	(1) 5300	(5) 4895·9	(1) 5200·3
5133·8	5459·5	414995·8	(2) 5300·0	(4) 5030	(2) 5300·0	34995·8	(6) 5321·2	(3) 4975·0	(6) 5300
5135·5	5460·5	(3) 5030	(5) 5459·5	(3) 5102	(3) 5375·0	(1) 5030·0	(2) 5459·5	414995·8	(5) 5321·2
5137·8	5670·5	615144	(3) 5670·5	(6) 5144	(4) 5459·5	(2) 5144·0	(3) 5460·5	(6) 5030·0	(2) 5627
5159·5	5671·5	(1) 5159·5	(4) 5671·5	(1) 5159·5	(5) 5627	(5) 5159·5	(4) 5627	(1) 5159·5	415726
5162·2	5730·0	215162·0	615863·2	25162·0	615741	615162·0	515628	(2) 5162·0	315863·2
Lat. - 6·3°		Lat. - 22·1		Lat. - 23·3		Lat. - 20·9		Lat. - 15·4°	

Greenwich No. 2826b.		Greenwich No. 2826b.		Greenwich No. 2829a.		Greenwich No. 2833a.		Greenwich No. 2826c.	
1893. January 28.		1893. February 1.		1893. February 1.		1893. February 1.		1893. February 4.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5112·0	5218·8	5061·2	5218·8	5061·2	5218·8	5118·5	5425·8	5133·8	5425·8
5116·0	5300·0	5112·0	5221·2	5116·0	5286·0	5133·8	5459·5	5135·5	5459·5
5117·5	5425·8	5116·0	5425·8	5117·5	5459·5	5135·5	5460·5	5137·8	5460·5
5156·0	5459·5	5117·5	5725·8	5156·0	5460·5	5137·8	5670·5	5156·0	5670·5
5159·5	5670·5	5156·0	5730·5	5159·5	5670·5	5156·0	5671·5	5159·5	5671·5
5162·0	5671·5	5159·5	5736·0	5162·0	5671·5	5159·5	5730·5	5162·0	5730·5
Lat. - 21·4°		Lat. - 22·2°		Lat. + 16·5°		Lat. + 14·0°		Lat. - 20·6°	
Greenwich No. 2826b.		Greenwich No. 2826b.		Greenwich No. 2838b.		Greenwich No. 2838a.		Greenwich No. 2838b.	
1893. February 4.		1893. February 4.		1893. February 6.		1893. February 6.		1893. February 7.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5061·2	5218·8	5112·0	5224·0	5133·8	5300	5133·8	5218·8	5133·8	5221·2
5112·0	5221·2	5116·0	5224·6	5135·5	5425·8	5135·5	5300·0	5135·5	5300·0
5116·0	5425·8	5117·5	5425·8	5137·8	5459·5	5137·8	5459·5	5137·8	5425·8
5117·5	5725·8	5118·5	5725·8	5156·0	5460·5	5117·5	5460·5	5156·0	5459·5
5156·0	5730·5	5156·0	5730·5	5159·5	5670·5	5118·5	5670·5	5159·5	5670·5
5159·5	5736·0	5159·5	5736·0	5162·0	5671·5	5156·0	5671·5	5162·0	5671·5
Lat. - 22·3		Lat. - 22·3°		Lat. - 10·1°		Lat. - 10·4°		Lat. - 9·7°	
Greenwich No. 2838b.		Greenwich No. 2838a.		Greenwich No. 2841b.		Greenwich No. 2843.		Greenwich No. 2838a.	
1893. February 8.		1893. February 8.		1893. February 8.		1893. February 8.		1893. February 10.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5084·8	5299·4	5116·0	5218·8	5110·7	5271·6	5061·2	5299·4	5112·0	5218·8
5133·8	5425·8	5117·5	5425·8	5112·0	5299·4	5095·5	5670·5	5116·0	5224·0
5135·5	5459·5	5118·5	5460·5	5116·0	5670·5	5133·8	5671·5	5118·5	5224·6
5137·8	5460·5	5133·8	5670·5	5156·0	5671·5	5135·5	5726·5	5133·8	5459·5
5156·0	5670·5	5135·5	5671·5	5159·5	5725·8	5137·8	5730·0	5135·5	5670·5
5159·5	5671·5	5137·8	5730·0	5162·0	5736·0	5156·0	5736·0	5137·8	5671·5
Lat. - 9·6°		Lat. - 9·5°		Lat. + 14·7°		Lat. - 16·9°		Lat. - 10·8	
						Note.—This spot does not appear in the Greenwich measures until February 9.			

Greenwich No. 2843.		Greenwich No. 2861a.		Greenwich No. 2857a.		Greenwich No. 2856a.		Greenwich No. 2853a.	
1893. February 10.		1893. February 25.		1893. February 25.		1893. February 25.		1893. February 25.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5095.5	5209.4	5133.8	5224.2	5112.0	5218.8	5061.2	5218.8	5133.8	5459.5
5133.8	5459.5	5135.5	5224.6	5116.0	5221.2	5095.5	5221.2	5135.5	5460.5
5135.5	5670.5	5137.8	5459.5	5117.5	5459.5	5110.7	5425.8	5137.8	5670.5
5137.8	5671.5	5156.0	5460.5	5118.5	5460.5	5112.0	5459.5	5156.0	5671.5
5156.0	5730.0	5159.5	5670.5	5156.0	5670.5	5116.0	5670.5	5159.5	5730.5
5159.5	5736.0	5162.0	5671.5	5159.5	5671.5	5156.0	5671.5	5162.0	5736.0
Lat. - 17.7		Lat. - 20.7°		Lat. - 17		Lat. + 9.5°		Lat. + 16.3°	
Greenwich No. 2861a.		Greenwich No. 2856a.		Greenwich No. 2853a.		Greenwich No. 2867a.		Greenwich No. 2881a.	
1893. February 28.		1893. February 28.		1893. February 28.		1893. March 8.		1893. March 10.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5133.8	5218.8	5110.7	5218.8	5133.8	5425.8	5133.8	5459.5	5061.2	5425.8
5135.5	5221.2	5116.0	5221.2	5135.5	5459.5	5135.5	5460.5	5116.0	5459.5
5137.8	5459.5	5117.5	5459.5	5137.8	5460.5	5137.8	5670.5	5133.8	5489.0
5156.0	5460.5	5118.5	5460.5	5156.0	5670.5	5156.0	5671.5	5135.5	5490.0
5159.5	5670.5	5156.0	5670.5	5159.5	5671.5	5159.5	5726.0	5137.8	5670.5
5162.0	5671.5	5159.5	5671.5	5162.0	5730.5	5162.0	5730.5	5156.0	5671.5
Lat. - 20.6		Lat. - 10.1°		Lat. - 16.2°		Lat. - 3.1°		Lat. - 8.2	
Greenwich No. 2870a.		Greenwich No. 2881a.		Greenwich No. 2881a.		Greenwich No. 2881a.		Greenwich No. 2881a.	
1893. March 10.		1893. March 11.		1893. March 13.		1893. March 17.		1893. March 18.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5061.2	5425.8	5061.2	5425.8	5116.0	5425.8	5044.0	5425.8	5044.0	5218.8
5112.0	5489.0	5116.0	5489.0	5133.8	5459.5	5061.5	5459.5	5112.0	5670.5
5133.8	5490.0	5133.8	5490.0	5135.5	5489.0	5116.0	5670.5	5116.0	5671.5
5135.5	5670.5	5135.5	5670.5	5137.8	5490.0	5156.0	5671.5	5156.0	5726.5
5137.8	5671.5	5137.8	5671.5	5156.0	5670.5	5159.5	5730.0	5159.5	5730.0
5149.5	5736.0	5156.0	5726.5	5159.5	5671.5	5162.0	5736.0	5162.0	5736.0
Lat. - 14.3		Lat. - 2		Lat. - 8.2°		Lat. - 8.3		Lat. - 8.2	

Greenwich No. 2881a.		Greenwich No. 2892a.		Greenwich No. 2893a.		Greenwich No. 2893a.		Greenwich No. 2893a.	
1893. March 20.		1893. March 20.		1893. March 20.		1893. March 22.		1893. March 23.	
F — b	b — D	F — b	b — D	F — b	b — D	F — b	b — D	F — b	b — D
5044.0	5218.8	5061.5	5627.0	5044.0	5425.8	5044.0	5627.0	5044.0	5627.0
5061.5	5425.8	5085.0	5670.5	5061.5	5627.0	5061.5	5670.5	5061.5	5670.5
5116.0	5670.5	5085.6	5671.5	5085.0	5670.5	5085.0	5671.5	5085.0	5671.5
5156.0	5671.5	5112.0	5726.5	5085.6	5671.5	5085.6	5726.5	5085.6	5726.5
5159.5	5730.0	5116.0	5730.0	5086.3	5730.0	5086.3	5730.0	5086.3	5730.0
5162.0	5736.0	5156.0	5736.0	5086.7	5736.0	5086.7	5736.0	5086.7	5736.0
Lat. - 8.2°		Lat. + 11.5°		Lat. + 23.5°		Lat. + 23.5°		Lat. + 23.5°	
Greenwich No. 2893a.		Greenwich No. 2893a.		Greenwich No. 2892b.		Greenwich No. 2893a.		Greenwich No. 2892b.	
1893. March 24.		1893. March 25.		1893. March 25.		1893. March 27.		1893. March 27.	
F — b	b — D	F — b	b — D	F — b	b — D	F — b	b — D	F — b	b — D
5044.0	5670.5	5061.5	5627.0	5044.0	5670.5	5044.0	5670.5	5085.0	5627.0
5085.0	5671.5	5085.0	5670.5	5085.0	5671.5	5061.5	5671.5	5085.6	5670.5
5085.6	5726.5	5085.6	5671.5	5085.6	5726.5	5085.0	5726.5	5086.3	5671.5
5086.3	5730.0	5086.3	5726.5	5086.3	5730.0	5085.6	5730.0	5086.7	5726.5
5086.7	5736.0	5086.7	5730.0	5086.7	5736.0	5086.3	5736.0	5116.0	5730.0
5116.0	5742.0	5156.0	5736.0	5116.0	5742.0	5086.7	5742.0	5156.0	5736.0
Lat. + 23.5°		Lat. + 24°		Lat + 10.5°		Lat. + 23.8°		Lat. - 10.3°	
Greenwich No. 2893a.		Greenwich No. 2892b.		Greenwich No. 2893a.		Greenwich No. 2892b.		Greenwich No. 2893a.	
1893. March 28.		1893. March 28.		1893. March 29.		1893. March 29.		1893. March 30.	
F — b	b — D	F — b	b — D	F — b	b — D	F — b	b — D	F — b	b — D
5085.0	5425.8	5085.0	5218.8	5085.0	5670.5	5085.0	5459.5	5085.0	5670.5
5085.6	5670.5	5085.6	5459.5	5085.6	5671.5	5085.6	5460.5	5085.6	5671.5
5086.3	5671.5	5086.3	5670.5	5086.3	5726.5	5086.3	5670.5	5086.3	5726.5
5086.7	5726.5	5086.7	5671.5	5086.7	5730.0	5086.7	5671.5	5086.7	5730.0
5112.0	5730.0	5156.0	5726.5	5112.0	5736.0	5156.0	5726.5	5112.0	5736.0
5116.0	5736.0	5159.5	5730.0	5116.0	5742.0	5159.5	5730.0	5133.5	5742.0
Lat. + 23.8°		Lat. + 10.4°		Lat. + 23.8°		Lat. + 10.7°		Lat. - 23.8°	

Greenwich No. 2906a.		Greenwich No. 2906a.		Greenwich No. 2899b.		Greenwich No. 2906a.		Greenwich No. 2899b.	
1893. March 30.		1893. March 31.		1893. March 31.		1893. April 1.		1893. April 1.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5085.0	5425.8	5086.3	5425.8	5085.0	5425.8	(5) 5087.3	(3) 5425.8	(1) 5085.0	(6) 5425.8
5085.6	5670.5	5086.7	5670.5	5085.6	5670.5	(6) 5087.7	(1) 5670.5	(2) 5085.6	(1) 5670.5
5086.3	5670.5	5139.5	5671.5	5086.3	5671.5	(1) 5112.0	(2) 5671.5	(3) 5086.3	(2) 5671.5
5086.7	5671.5	5112.0	5736.0	5086.7	5736.0	(3) 5116.0	(4) 5736.0	(4) 5086.7	(5) 5736.0
	5736.0	5116.0	5738.0	5087.3	5736.0	(2) 5156.0	(5) 5738.0	(5) 5087.3	(3) 5736.0
	5736.0	5156.0	5742.0	5087.7	5742.0	(4) 5159.5	(6) 5742.0	(6) 5087.7	(4) 5742.0
Lat. - 14.0°		Lat. - 13.9°		Lat. - 19.8°		Lat. - 13.8°		Lat. - 19.8°	
Greenwich No. 2906a.		Greenwich No. 2906a.		Greenwich No. 2906a.		Greenwich No. 2906a.		Greenwich No. 2914a.	
1893. April 3.		1893. April 4.		1893. April 5.		1893. April 6.		1893. April 7.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5085.0	5425.8	(1) 5085.0	(3) 5425.8	5085.0	5425.8	(3) 5085.0	(3) 5425.8	5085.0	5425.8
5085.6	5670.5	(2) 5085.6	(1) 5670.5	5085.6	5670.5	(4) 5085.6	(1) 5670.5	5085.6	5670.5
5086.3	5671.5	(3) 5112.0	(2) 5671.5	5112.0	5671.5	(5) 5086.3	(2) 5671.5	5133.8	5671.5
5086.7	5726.5	(5) 5137.8	(4) 5726.5	5137.8	5726.5	(6) 5086.7	(4) 5726.5	5135.5	5726.5
5112.0	5730.0	(4) 5156.0	(6) 5730.0	5156.0	5730.0	(2) 5112.0	(5) 5730.0	5137.8	5730.0
5137.8	5736.0	(6) 5159.5	(5) 5736.0	5159.5	5736.0	(1) 5156.0	(6) 5736.0	5156.0	5736.0
Lat. - 14.0°		Lat. - 13.9°		Lat. - 14.0°		Lat. - 13.9°		Lat. - 7.5°	
Greenwich No. 2914b.		Greenwich No. 2914a.		Greenwich No. 2914b.		Greenwich No. 2914b.		Greenwich No. 2923a.	
1893. April 7.		1893. April 10.		1893. April 10.		1893. April 12.		1893. April 12.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5133.8	5425.8	5116.0	5425.8	5061.2	5425.8	5061.5	5425.8	5061.5	5218.8
5135.5	5670.5	5133.8	5670.5	5133.8	5670.5	5085.0	5450.5	5085.0	5221.2
5137.8	5671.5	5135.5	5671.5	5135.5	5671.5	5085.6	5670.5	5085.6	5489.5
5156.0	5726.5	5137.8	5726.5	5137.8	5726.5	5086.3	5671.5	5133.8	5490.5
5159.5	5730.0	5156.0	5730.0	5156.0	5730.0	5086.7	5736.5	5135.5	5670.5
	5736.0	5159.5	5736.0	5159.5	5736.0	5156.0	5736.0	5137.8	5671.5
Lat. - 9.4°		Lat. - 7.3°		Lat. - 9.2°		Lat. - 9.3°		Lat. - 14.7°	

Greenwich No. 2923a.		Greenwich No. 2914a.		Greenwich No. 2914b.		Greenwich No. 2923a.		Greenwich No. 2923a.	
1893. April 13.		1893. April 14.		1893. April 14.		1893. April 14.		1893. April 15.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5061·5	5218·8	(5) 5085·0	(1) 5425·8	(6) 5061·5	(4) 5425·8	(1) 5085·0	(1) 5425·8	(1) 5112·0	(3) 5425·5
5085·0	5221·2	(6) 5085·6	(6) 5459·5	(3) 5085·0	(5) 5459·5	(2) 5085·6	(5) 5459·5	(2) 5133·8	(4) 5459·5
5085·6	5489·5	(3) 5133·8	(2) 5670·5	(2) 5085·6	(1) 5670·5	(3) 5086·3	(6) 5460·5	(3) 5135·5	(1) 5670·5
5133·8	5490·5	(4) 5135·5	(3) 5671·5	(4) 5086·3	(2) 5671·5	(4) 5086·7	(2) 5670·5	(4) 5156·0	(2) 5671·5
5135·5	5670·5	(2) 5156·0	(4) 5726·5	(5) 5086·7	(6) 5730·0	(5) 5112·0	(3) 5671·5	(5) 5159·5	(5) 5730·0
5137·8	5671·5	(1) 5159·5	(5) 5730·0	(1) 5156·0	(3) 5736·0	(6) 5159·5	(4) 5736·0		(6) 5736·0
Lat. - 15·0°		Lat. - 7·5°		Lat. - 9·0°		Lat. - 14·9°		Lat. - 14·9°	
Greenwich No. 2914b.		Greenwich No. 2914a.		Greenwich No. 2930a.		Greenwich No. 2923a.		Greenwich No. 2925a.	
1893. April 15.		1893. April 15.		1893. April 18.		1893. April 18.		1893. April 20.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
(6) 5061·5	(4) 5459·5	(5) 5085·0	(4) 5459·5	(6) 5061·5	(1) 5425·8	5061·5	5425·8	5061·2	5218·8
(3) 5085·0	(1) 5670·5	(6) 5085·6	(5) 5460·5	(3) 5085·0	(2) 5489·0	5085·0	5459·5	5085·0	5425·8
(2) 5085·6	(2) 5671·5	(4) 5112·0	(1) 5670·5	(2) 5085·6	(3) 5490·0	5085·6	5670·5	5085·6	5489·0
(4) 5086·3	(5) 5726·5	(3) 5136·0	(2) 5671·5	(5) 5086·3	(4) 5627·5	5133·8	5671·5	5156·0	5490·0
(5) 5086·7	(6) 5730·0	(1) 5156·0	(6) 5730·0	(4) 5086·7	(5) 5726·5	5135·5	5726·5	5159·5	5726·5
(1) 5156·0	(3) 5736·0	(2) 5159·5	(3) 5736·0	(1) 5156·0	(6) 5736·0	5137·8	5736·0	5162·2	5736·0
Lat. - 9·0°		Lat. - 7·5°		Lat. + 23·3°		Lat. - 14·4°		Lat. + 15·4°	
Greenwich No. 2923a.		Greenwich No. 2923a.		Greenwich No. 2925a.		Greenwich No. 2923a.		Greenwich No. 2925a.	
1893. April 20.		1893. April 21.		1893. April 21.		1893. April 22.		1893. April 22.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5085·0	5425·8	5085·0	5425·8	5085·0	5459·5	5085·0	5425·8	5085·0	5459·5
5085·6	5670·5	5085·6	5459·5	5085·6	5670·5	5085·6	5459·5	5085·6	5670·5
5116·0	5671·5	5112·0	5460·5	5086·3	5671·5	5112·0	5460·5	5086·3	5671·5
5133·8	5726·5	5133·8	5670·5	5086·7	5726·5	5130·0	5670·5	5086·7	5726·5
5135·5	5730·0	5135·5	5671·5	5112·0	5730·0	5136·0	5671·5	5112·0	5730·0
5137·8	5736·0	5159·5	5736·0	5136·0	5736·0	5159·5	5736·0	5136·0	5736·0
Lat. - 14·1°		Lat. - 14·1°		Lat. + 15·2°		Lat. - 14·2°		Lat. + 15·0°	

Greenwich No. 29315.		Greenwich No. 2938a.		Greenwich No. 2931b.		Greenwich No. 2938a.		Greenwich No. 2939a.	
1893. April 24.		1893. April 24.		1893. April 25.		1893. April 25.		1893. April 25.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5061.5	5425.8	5061.5	5425.8	(6) 5061.5	(1) 5425.8	(6) 5043.5	(6) 5425.8	(1) 5085.0	(6) 5425.8
5086.3	5459.5	5085.0	5489.0	(4) 5085.0	(6) 5459.5	(1) 5085.0	(1) 5670.5	(2) 5085.6	(5) 5627.5
5086.7	5489.0	5085.6	5490.0	(5) 5085.6	(2) 5670.5	(2) 5085.6	(2) 5671.5	(5) 5133.8	(1) 5670.5
5133.8	5490.0	5086.3	5627.5	(3) 5135.5	(3) 5671.5	(3) 5086.3	(3) 5726.5	(3) 5135.5	(2) 5671.5
5135.5	5670.5	5086.7	5726.5	(1) 5156.0	(4) 5730.0	(4) 5086.7	(4) 5730.0	(4) 5137.5	(4) 5726.5
5137.8	5671.5	5116.0	5736.0	(2) 5159.5	(5) 5736.0	(5) 5156.0	(5) 5736.0	(6) 5156.0	(3) 5730.0
Lat. - 21.4°		Lat. + 8.0°		Lat. + 21.4°		Lat. + 8.4°		Lat. - 14.4°	
Greenwich No. 2931b.		Greenwich No. 2938a.		Greenwich No. 2938c.		Greenwich No. 2941a.		Greenwich No. 2931b.	
1893. April 26.		1893. April 26.		1893. April 26.		1893. April 26.		1893. April 27.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5085.0	5425.8	5085.0	5425.8	5044.0	5425.8	5085.0	5425.8	(2) 5085.0	(2) 5425.8
5085.6	5627.5	5085.6	5459.5	5061.5	5489.0	5085.6	5670.5	(1) 5085.6	(1) 5627.5
5086.3	5670.5	5086.3	5489.0	5085.0	5490.0	5086.3	5671.5	(3) 5086.3	(3) 5670.5
5086.7	5671.5	5086.7	5490.0	5085.6	5627.5	5086.7	5726.5	(4) 5086.7	(4) 5671.5
5156.0	5726.5	5112.0	5726.5	5086.3	5726.5	5112.0	5730.0	(5) 5156.0	(6) 5730.0
5159.5	5736.0	5156.0	5730.0	5086.7	5736.0	5116.0	5736.0	(6) 5159.5	(5) 5736.0
Lat. - 21.1°		Lat. + 8.6°		Lat. + 8.3°		Lat. + 23.5°		Lat. + 20.9°	
Greenwich No. 2938a.		Greenwich No. 2939a.		Greenwich No. 2941a.		Greenwich No. 2938a.		Greenwich No. 2939a.	
1893. April 27.		1893. April 27.		1893. April 27.		1893. April 28.		1893. April 28.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5085.0	5425.8	(2) 5085.0	(1) 5425.8	(2) 5085.0	(1) 5425.8	5085.0	5425.8	5085.0	5218.8
5085.6	5459.5	(1) 5085.6	(2) 5670.5	(1) 5085.6	(2) 5670.5	5085.6	5489.0	5085.6	5425.8
5086.3	5489.0	(6) 5086.3	(3) 5671.5	(4) 5086.3	(3) 5671.5	5086.3	5490.0	5086.3	5726.5
5086.7	5490.0	(5) 5086.7	(4) 5726.5	(3) 5086.7	(4) 5726.5	5086.7	5627.5	5086.7	5730.0
5112.0	5726.5	(3) 5156.0	(5) 5730.5	(5) 5112.0	(5) 5730.0	5156.0	5670.5	5116.0	5736.0
5133.5	5730.0	(4) 5159.5	(6) 5736.0	(6) 5116.0	(6) 5736.0	5159.5	5671.5	5118.5	5742.0
Lat. - 8.8°		Lat. - 14.3°		Lat. + 23.0°		Lat. - 8.5°		Lat. - 14.2°	

Greenwich No. 2938a.		Greenwich No. 2941a.		Greenwich No. 2948b.		Greenwich No. 2951a.		Greenwich No. 2941b.	
1893. April 29.		1893. April 29.		1893. May 2.		1893. May 2.		1893. May 2.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
(2) 5085·0	(1) 5425·8	(4) 5085·0	(1) 5425·8	(4) 5085·0	(3) 5425·8	(2) 5085·0	(5) 5459·5	(3) 5086·3	(1) 5425·8
(1) 5085·6	(4) 5489·0	(3) 5085·6	(5) 5670·5	(3) 5085·6	(4) 5459·5	(1) 5085·6	(6) 5460·5	(2) 5086·7	(3) 5670·5
(6) 5086·3	(5) 5490·0	(2) 5086·3	(6) 5671·5	(2) 5086·3	(1) 5670·5	(4) 5086·3	(1) 5670·5	(4) 5112·0	(4) 5671·5
(5) 5086·7	(2) 5670·5	(1) 5086·7	(2) 5726·5	(1) 5086·7	(2) 5671·5	(3) 5086·7	(2) 5671·5	(5) 5133·5	(1) 5726·5
(3) 5156·0	(3) 5671·5	(6) 5112·0	(4) 5730·0	(5) 5133·5	(3) 5726·5	(5) 5112·0	(3) 5730·0	(1) 5156·0	(5) 5730·0
(4) 5159·5	(6) 5726·5	(5) 5116·0	(3) 5736·0	(6) 5156·0	(6) 5736·0	(6) 5156·0	(4) 5736·0	(6) 5159·5	(2) 5736·0
Lat. + 8·5°		Lat. + 23·2°		Lat. - 12·8°		Lat. - 20·0°		Lat. + 21·6°	
Greenwich No. 2941b.		Greenwich No. 2948b.		Greenwich No. 2951a.		Greenwich No. 2948b.		Greenwich No. 2951a.	
1893. May 4.		1893. May 4.		1893. May 4.		1893. May 5.		1893. May 5.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
(3) 5086·3	(6) 5425·8	(2) 5085·0	(1) 5425·8	(5) 5085·0	(5) 5459·5	5061·0	5425·8	5085·0	5489·0
(2) 5086·7	(3) 5670·5	(1) 5085·6	(6) 5459·5	(6) 5085·6	(6) 5460·5	5085·0	5670·5	5085·6	5490·0
(4) 5112·0	(4) 5671·5	(3) 5086·3	(2) 5670·5	(4) 5112·0	(1) 5670·5	5085·6	5671·5	5112·0	5670·5
(5) 5133·5	(1) 5726·5	(4) 5086·7	(3) 5671·5	(1) 5156·0	(2) 5671·5	5133·8	5726·5	5116·0	5671·5
(1) 5156·0	(5) 5730·0	(5) 5133·8	(4) 5726·5	(2) 5159·5	(3) 5726·5	5135·5	5730·0	5156·0	5726·5
(6) 5159·5	(2) 5736·0	(6) 5137·8	(5) 5736·0	(3) 5162·0	(4) 5730·0	5137·8	5736·0	5159·5	5736·0
Lat. + 21·5°		Lat. - 11·9°		Lat. - 19·8°		Lat. - 11·9°		Lat. - 19·8°	
Greenwich No. 2953a.		Greenwich No. 2948b.		Greenwich No. 2951a.		Greenwich No. 2956a.		Greenwich No. 2951a.	
1893. May 5.		1893. May 6.		1893. May 6.		1893. May 8.		1893. May 8.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5061·5	5425·8	5061·5	5425·8	5085·0	5489·0	(3) 5085·0	(3) 5425·8	(5) 5085·0	(2) 5489·0
5085·0	5489·5	5085·0	5459·5	5085·6	5490·0	(4) 5085·6	(1) 5670·5	(6) 5085·6	(1) 5490·0
5085·6	5490·5	5085·6	5670·5	5112·0	5670·5	(5) 5086·3	(2) 5671·5	(2) 5112·0	(3) 5670·5
5086·3	5670·5	5133·8	5671·5	5116·0	5671·5	(6) 5086·7	(4) 5726·5	(3) 5116·5	(4) 5671·5
5086·7	5671·5	5135·5	5726·5	5117·5	5726·5	(1) 5156·0	(5) 5730·0	(4) 5117·5	(5) 5726·5
5156·0	5726·5	5137·8	5736·0	5156·0	5736·0	(2) 5159·5	(6) 5736·0	(1) 5156·0	(6) 5730·0
Lat. - 21·7°		Lat. - 12·4°		Lat. - 19·3°		Lat. - 27·1°		Lat. - 19·3°	

Greenwich No. 2956a.		Greenwich No. 2951a.		Greenwich No. 2962.		Greenwich No. 2962.		Greenwich No. 2956a.	
1893. May 9.		1893. May 9.		1893. May 9.		1893. May 11.		1893. May 11.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
(3) 5085.0	(1) 5425.8	5085.0	5489.0	5085.0	5425.8	(4) 5085.0	(3) 5425.8	(1) 5085.0	(4) 5425.8
(4) 5085.6	(2) 5670.5	5085.6	5490.0	5085.6	5626.5	(3) 5085.6	(1) 5670.5	(2) 5085.6	(5) 5489.0
(5) 5086.3	(3) 5671.5	5112.0	5670.5	5086.3	5670.5	(1) 5086.3	(2) 5671.5	(3) 5086.3	(6) 5490.0
(6) 5086.7	(4) 5726.5	5116.0	5671.5	5086.7	5671.5	(2) 5086.7	(4) 5726.5	(4) 5086.7	(1) 5670.5
(1) 5156.0	(5) 5730.0	5117.5	5726.5	5133.5	5726.5	(5) 5156.0	(5) 5730.0	(5) 5156.0	(2) 5671.5
(2) 5159.5	(6) 5736.0	5156.0	5736.0	5137.5	5730.0	(6) 5159.5	(6) 5736.0	(6) 5159.5	(3) 5726.5
Lat. - 27.3°		Lat. - 19.2°		Lat. - 13.4°		Lat. - 13.2°		Lat. - 27.6°	
Greenwich No. 2964a.		Greenwich No. 2964a.		Greenwich No. 2962.		Greenwich No. 2964a.		Greenwich No. 2962.	
1893. May 11.		1893. May 12.		1893. May 12.		1893. May 13.		1893. May 13.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
(1) 5085.0	(1) 5425.8	5085.0	5425.8	5085.0	5425.8	5085.0	5425.8	5085.0	5425.8
(2) 5085.6	(6) 5489.0	5085.6	5627.5	5085.6	5670.5	5085.6	5627.5	5085.6	5670.5
(3) 5086.3	(5) 5627.5	5086.3	5670.5	5086.3	5671.5	5086.3	5670.5	5086.3	5671.5
(4) 5086.7	(2) 5670.5	5086.7	5671.5	5086.7	5726.5	5086.7	5671.5	5086.7	5726.5
(5) 5156.0	(3) 5671.5	5156.0	5726.5	5156.0	5730.0	5156.0	5726.5	5112.0	5730.0
(6) 5159.5	(4) 5726.5	5159.5	5730.0	5159.5	5736.0	5159.5	5730.0	5116.0	5736.0
Lat. - 13.1°		Lat. - 13.0°		Lat. - 13.6°		Lat. - 12.8°		Lat. - 13.9°	
Greenwich No. 2964a.		Greenwich No. 2962.		Greenwich No. 2967.		Greenwich No. 2967.		Greenwich No. 2967.	
1893. May 15.		1893. May 15.		1893. May 18.		1893. May 19.		1893. May 20.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
(3) 5085.0	(6) 5459.5	(1) 5085.0	(3) 5425.8	(6) 5086.3	(3) 5425.8	(1) 5085.0	(3) 5425.8	(1) 5085.0	(6) 5425.8
(4) 5085.6	(3) 5627.5	(2) 5085.6	(1) 5670.5	(5) 5086.7	(1) 5670.5	(2) 5085.6	(1) 5670.5	(2) 5085.6	(1) 5670.5
(1) 5086.3	(1) 5670.5	(3) 5086.3	(2) 5671.5	(4) 5112.0	(2) 5671.5	(3) 5086.3	(2) 5671.5	(3) 5086.3	(2) 5671.5
(2) 5086.7	(2) 5671.5	(4) 5086.7	(4) 5726.5	(3) 5133.5	(4) 5726.5	(4) 5086.7	(4) 5726.5	(4) 5086.7	(3) 5726.5
(5) 5156.0	(4) 5726.5	(5) 5112.0	(5) 5730.0	(2) 5137.5	(5) 5730.0	(5) 5133.5	(5) 5730.0	(5) 5133.5	(4) 5730.0
(6) 5159.5	(5) 5730.0	(6) 5116.0	(6) 5736.0	(1) 5156.0	(6) 5736.0	(6) 5137.5	(6) 5736.0	(6) 5137.5	(5) 5736.0
Lat. - 12.8°		Lat. - 13.4°		Lat. - 13.3°		Lat. - 13.7°		Lat. - 13.4°	

Greenwich No. 2902a.		Greenwich No. 2992a.		Greenwich No. 2992a.		Greenwich No. 2996a.		Greenwich No. 2902a.	
1893. May 29.		1893. May 31.		1893. June 2.		1893. June 2.		1893. June 3.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
(1) 5085·0	(6) 5627·5	(1) 5085·0	(6) 5627·5	(1) 5085·0	(4) 5425·8	(1) 5085·0	(6) 5425·8	(1) 5085·0	(6) 5425·8
(2) 5085·6	(1) 5670·5	(2) 5085·6	(1) 5670·5	(2) 5085·6	(6) 5459·5	(2) 5085·6	(1) 5670·5	(2) 5085·6	(1) 5670·5
(3) 5086·3	(2) 5671·5	(3) 5086·3	(2) 5671·5	(3) 5086·3	(5) 5627·5	(3) 5086·3	(2) 5671·5	(3) 5086·3	(2) 5671·5
(4) 5086·7	(3) 5726·5	(4) 5086·7	(3) 5726·5	(4) 5086·7	(1) 5670·5	(4) 5086·7	(3) 5726·5	(4) 5086·7	(3) 5726·5
(5) 5156·0	(4) 5730·0	(5) 5156·0	(4) 5730·0	(5) 5156·0	(2) 5671·5	(5) 5133·5	(4) 5730·0	(5) 5133·8	(4) 5730·0
(6) 5159·5	(5) 5736·0	(6) 5159·5	(5) 5736·0	(6) 5159·5	(3) 5726·5	(6) 5137·5	(5) 5736·0	(6) 5137·8	(5) 5736·0
Lat. - 20·1°		Lat. - 20·2°		Lat. - 20·7°		Lat. + 17·9°		Lat. - 20·9°	
Greenwich No. 2996a.		Greenwich No. 2996a.		Greenwich No. 3005a.		Greenwich No. 3004a.		Greenwich No. 3005a.	
1893. June 3.		1893. June 5.		1893. June 13.		1893. June 14.		1893. June 14.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
(1) 5085·0	(5) 5425·8	(1) 5085·0	(6) 5425·8	5062·0	5489·0	5044·0	5218·8	5133·8	5218·8
(2) 5085·6	(6) 5459·5	(2) 5085·6	(1) 5670·5	5114·0	5671·0	5116·0	5425·8	5135·5	5726·5
(3) 5086·3	(1) 5670·5	(3) 5086·3	(2) 5671·5	5115·6	5726·0	5137·8	5726·5	5137·8	5730·5
(4) 5086·7	(2) 5671·5	(4) 5086·7	(3) 5726·5	5159·5	5730·0	5156·0	5730·5	5156·0	5736·0
(5) 5156·0	(3) 5726·5	(5) 5133·8	(4) 5730·0	5162·0	5736·0	5159·5	5736·0	5159·5	5742·0
(6) 5159·5	(4) 5730·0	(6) 5137·8	(5) 5736·0		5865·0	5162·0	5742·0	5162·0	5776·0
Lat. + 17·9°		Lat. + 17·6°		Lat. - 12·6°		Lat. + 12·9°		Lat. - 12·8°	
Greenwich No. 3005a.		Greenwich No. 3005a.		Greenwich No. 3015.		Greenwich No. 3015c.		Greenwich No. 3015c.	
1893. June 15.		1893. June 16.		1893. June 16.		1893. June 17.		1893. June 19.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5061·5	5426·0	5061·7	5425·8	5085·0	5425·8	5044·0	5425·8	5134·0	5425·5
5116·0	5726·5	5085·0	5460·5	5087·5	5670·5	5112·0	5726·5	5135·5	5669·5
5133·8	5730·5	5116·0	5670·5	5100·0	5671·5	5133·8	5730·0	5137·5	5670·5
5135·5	5736·0	5135·5	5726·5	5156·0	5726·5	5135·5	5742·0	5156·0	5726·5
5137·8	5742·0	5137·8	5730·0	5159·5	5730·0	5137·8	5770·0	5159·5	5730·0
5159·0	5866·0	5159·5	5742·0	5162·0	5742·0	5149·5	5874·0	5162·0	5761·0
Lat. - 12·9°		Lat. - 12·8°		Lat. - 20·1°		Lat. - 20·0°		Lat. - 20·0°	

Greenwich No. 3032b.		Greenwich No. 3042a.		Greenwich No. 3042a.		Greenwich No. 3042a.		Greenwich No. 3042a.	
1893. June 28.		1893. June 30.		1893. July 1.		1893. July 3.		1893. July 7.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
Cloney	5425.8	5044.0	5425.0	5044.0	5425.0	5134.0	5425.0	5085.0	5489.0
	5670.5	5085.0	5670.5	5116.0	5670.5	5137.5	5481.0	5116.0	5490.0
	5671.5	5121.5	5671.5	5137.0	5671.5	5149.5	5726.5	5133.5	5670.5
	5726.5	5137.5	5726.5	5143.0	5726.5	5156.0	5730.0	5133.8	5671.5
	5730.0	5149.5	5730.0	5156.0	5730.0	5159.0	5736.0	5137.5	5726.0
	5735.0	5159.0	5736.0	5159.0	5736.0	5162.0	5742.0	5156.0	5730.0
	5736.0		5742.0		5742.0				5736.0
									5742.0
Lat. - 11.3°		Lat. - 17.7°		Lat. - 17.8°		Lat. - 18.3°		Lat. - 17.8°	
Greenwich No. 3046a.		Greenwich No. 3046a.		Greenwich No. 3067a.		Greenwich No. 3068.		Greenwich No. 3071a.	
1893. July 7.		1893. July 8.		1893. July 18.		1893. July 18.		1893. July 18.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5116.0	5670.5	5087	5425	5044.0	5425.8	5044.0	5425.8	5085.0	5425.8
5133.5	5671.5	5116.0	5670.5	5061.5	5459.5	5085.0	5670.5	5085.6	5670.5
5136.0	5726.0	5133.5	5671.5	5085.0	5670.5	5085.6	5671.5	5133.8	5671.5
5156.0	5730.0	5137.5	5726	5085.6	5671.5	5156.0	5730.0	5135.5	5726.5
5159.0	5736.0	5156	5730	5116.0	5726.5	5159.5	5736.0	5137.8	5730.0
5162.0	5742.0	5162	5736	5156.0	5742.0	5162.2	5742.0	5156.0	5742.0
			5742						
Lat. - 16.5		Lat. - 17.1°		Lat. + 17.3°		Lat. + 4.2°		Lat. + 17.1°	
Greenwich No. 3071a.		Greenwich No. 3078a.		Greenwich No. 3083a.		Greenwich No. 3078a.		Greenwich No. 3084a.	
1893. July 22.		1893. July 22.		1893. July 22.		1893. July 25.		1893. July 25.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5085.0	5425.8	5085.0	5425.8	5044.0	5425.8	5085.0	5425.8	5085.0	5425.8
5085.6	5489.0	5085.6	5489.0	5061.5	5489.0	5085.6	5489.0	5085.6	5489.0
5086.3	5670.0	5086.3	5670.5	5085	5670.5	5133.8	5726.5	5133.8	5726.5
5086.7	5670.5	5086.7	5671.5	5085.6	5671.5	5135.5	5730.0	5135.5	5730.0
5156.0	5671.5	5133.8	5736.0	5133.8	5742.0	5137.8	5736.0	5137.1	5736.0
5159.5	5742.0	5137.8	5742.0	5137.8	5865.0	5156.0	5742.0	5156.0	5742.0
Lat. - 16.7		Lat. - 21.8		Lat. - 11.5		Lat. - 21.3		Lat. - 23.7	

Greenwich No. 3078a.		Greenwich No. 3078a.		Greenwich No. 3078a.		Greenwich No. 3098a.		Greenwich No. 3097a.	
1893. July 26.		1893. July 27.		1893. July 28.		1893. August 2.		1893. August 2.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5085.0	5218.8	5085.0	5425.8	5085.0	5425.8	5085.0	5425.8	5061.2	5425.8
5085.6	5425.8	5085.6	5489.0	5085.6	5489.0	5085.6	5489.0	5133.8	5459.5
5086.3	5489.0	5086.3	5670.5	5086.3	5670.5	5133.8	5627.5	5135.5	5489.0
5086.7	5670.5	5086.7	5671.5	5086.7	5671.5	5135.5	5670.5	5137.8	5627.5
5156.0	5671.5	5156.0	5742.0	5156.0	5742.0	5137.8	5671.5	5156.0	5670.5
5159.5	5742.0	5159.5	5865.0	5159.5	5865.0	5159.5	5742.0	5159.5	5671.5
Lat. - 21.2°		Lat. - 21.5°		Lat. - 21.5°		Lat. + 10.3°		Lat. - 17.7°	
Greenwich No. 3106a.		Greenwich No. 3106b.		Greenwich No. 3097a.		Greenwich No. 3106a.		Greenwich No. 3106b.	
1893. August 7.		1893. August 7.		1893. August 7.		1893. August 8.		1893. August 8.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5044.0	5425.8	5085.0	5425.8	5061.2	5218.8	5085.0	5425.8	5085.0	5425.8
5061.2	5489.0	5085.6	5489.0	5085.0	5425.8	5085.6	5459.5	5085.6	5489.5
5085.0	5670.5	5086.3	5670.5	5085.6	5489.0	5086.3	5489.5	5086.3	5670.5
5085.6	5671.5	5086.7	5671.5	5086.3	5627.5	5086.7	5671.5	5086.7	5671.5
5086.3	5742.0	5133.8	5736.0	5086.7	5670.5	5133.8	5726.5	5133.8	5736.0
5086.7	5865.0	5135.5	5742.0	5156.0	5671.5	5135.5	5736.0	5135.5	5742.0
		5137.8				5137.8		5137.8	
Lat. - 19.3°		Lat. - 17.6°		Lat. - 17.7°		Lat. - 19.8°		Lat. - 16.5°	
Greenwich No. 3107a.		Greenwich No. 3106a.		Greenwich No. 3107a.		Greenwich No. 3106b.		Greenwich No. 3107a.	
1893. August 8.		1893. August 9.		1893. August 9.		1893. August 9.		1893. August 9.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5133.8	5425.8	5085.0	5425.8	5061.5	5425.8	5085.0	5425.8	5116.0	5425.8
5135.5	5459.5	5085.6	5459.5	5133.8	5459.5	5085.6	5459.5	5133.8	5459.5
5137.8	5670.5	5086.3	5489.5	5135.5	5670.5	5086.3	5670.5	5135.5	5670.5
5156.0	5671.5	5086.7	5670.5	5137.8	5671.5	5086.7	5671.5	5137.8	5671.5
5159.5	5726.5	5133.8	5671.5	5156.0	5726.5	5133.8	5726.5	5156.0	5736.0
5162.2	5736.0	5135.5	5742.0	5159.5	5736.0	5135.5	5736.0	5159.5	5742.0
		5137.8				5137.8			
Lat. + 13.8°		Lat. - 19.0°		Lat. + 13.9°		Lat. - 15.1°		Lat. + 14.0°	

Greenwich No. 3112a.		Greenwich No. 3116a.		Greenwich No. 3118a.		Greenwich No. 3106a.		Greenwich No. 3106b.	
1893. August 9.		1893. August 9.		1893. August 9.		1893. August 10.		1893. August 10.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5123·8	5425·8	5085·0	5425·8	5085·0	5425·8	5085·0	5425·8	5085·0	5425·8
5125·5	5489·0	5085·6	5489·0	5085·6	5459·5	5085·6	5459·5	5085·6	5670·5
5137·8	5670·5	5133·8	5670·5	5133·8	5489·5	5086·3	5489·5	5086·3	5671·5
5156·0	5671·5	5135·5	5671·5	5135·5	5670·5	5086·7	5671·5	5086·7	5726·5
5139·5	5726·5	5137·8	5726·5	5137·8	5671·5	5133·8	5726·5	5133·8	5736·0
5162·0	5736·0	5156·0	5736·0	5156·0	5736·0	5135·5	5736·0	5135·5	5742·0
		5159·5				5137·8		5137·8	
Lat. - 16·9°		Lat. + 16·7°		Lat. - 16·1		Lat. - 19·0°		Lat. - 16·9°	
Greenwich No. 3107a.		Greenwich No. 3118a.		Greenwich No. 3106a.		Greenwich No. 3107a.		Greenwich No. 3106b.	
1893. August 10.		1893. August 10.		1893. August 11.		1893. August 11.		1893. August 11.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5133·8	5425·8	5085·0	5425·8	5085·0	5425·8	5133·8	5425·8	5085·0	5425·8
5135·5	5459·5	5085·6	5489·5	5085·6	5459·5	5135·5	5459·5	5085·6	5460·5
5137·8	5670·5	5086·3	5670·5	5086·3	5489·5	5137·8	5670·5	5086·3	5670·5
5159·5	5671·5	5086·7	5671·5	5086·7	5670·5	5156·0	5671·5	5086·7	5671·5
5162·2	5730·0	5133·8	5730·0	5133·8	5671·5	5159·5	5730·0	5156·0	5726·5
5164·0	5736·0	5135·5	5736·0	5135·5	5742·0	5162·2	5736·0	5159·5	5736·0
		5137·8		5137·8				5162·2	
Lat. + 13·8°		Lat. - 16·4°		Lat. - 19·4		Lat. + 13·9°		Lat. - 16·6°	
Greenwich No. 3116a.		Greenwich No. 3118a.		Greenwich No. 3118a.		Greenwich No. 3118a.		Greenwich No. 3131a.	
1893. August 11.		1893. August 11.		1893. August 14.		1893. August 15.		1893. August 15.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5085·0	5425·8	5061·5	5425·8	5085·0	5425·8	5085·0	5425·8	5133·8	5425·8
5085·6	5670·5	5085·0	5489·5	5085·6	5670·5	5085·6	5670·5	5135·5	5670·5
5133·8	5671·5	5085·6	5670·5	5133·8	5671·5	5133·8	5671·5	5137·8	5671·5
5135·5	5730·0	5133·8	5671·5	5135·5	5730·0	5135·5	5730·0	5156·0	5730·0
5137·8	5736·0	5135·5	5730·0	5137·8	5736·0	5137·8	5736·0	5159·5	5736·0
5156·0	5742·0	5137·8	5736·0	5156·0	5742·0	5156·0	5742·0	5162·2	5742·0
Lat. - 17·2		Lat. - 16·3°		Lat. - 16·6		Lat. - 16·7		Lat. - 11·4	

Greenwich No. 3118a.		Greenwich No. 3131a.		Greenwich No. 3118a.		Greenwich No. 3131a.		Greenwich No. 3133a.	
1893. August 16.		1893. August 16.		1893. August 17.		1893. August 17.		1893. August 17.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5085·0	5425·8	5133·8	5425·8	(2) 5085·0	(3) 5425·8	(6) 5112·0	(3) 5425·8	(2) 5085·0	(3) 5425·8
5085·6	5670·5	5135·5	5670·5	(1) 5085·6	(1) 5670·5	(3) 5133·8	(6) 5459·5	(1) 5085·6	(6) 5459·5
5133·8	5671·5	5137·8	5730·0	(6) 5112·0	(2) 5671·5	(4) 5135·5	(1) 5670·5	(4) 5086·3	(1) 5670·5
5135·5	5730·0	5156·0	5736·0	(3) 5133·8	(4) 5726·5	(5) 5137·8	(2) 5671·5	(3) 5086·7	(2) 5671·5
5137·8	5736·0	5159·5	5742·0	(4) 5135·5	(5) 5730·0	(1) 5156·0	(4) 5730·0	(5) 5112·0	(4) 5726·5
5156·0	5742·0	5162·2	5872·0	(5) 5137·8	(6) 5736·0	(2) 5159·5	(5) 5736·0	(6) 5116·0	(5) 5736·0
Lat. - 16°6'		Lat. - 11°0'		Lat. - 17°8'		Lat. - 11°3'		Lat. - 11°2'	
Greenwich No. 3118a.		Greenwich No. 3133a.		Greenwich No. 3137a.		Greenwich No. 3131a.		Greenwich No. 3135a.	
1893. August 18.		1893. August 18.		1893. August 18.		1893. August 18.		1893. August 18.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
(2) 5085·0	(3) 5425·8	(4) 5085·0	(3) 5425·8	(5) 5085·0	(5) 5425·8	(6) 5133·8	(3) 5425·8	(5) 5085·0	(1) 5425·8
(3) 5085·6	(6) 5459·5	(5) 5085·6	(6) 5627·0	(6) 5085·6	(3) 5670·5	(5) 5135·5	(6) 5459·5	(6) 5085·6	(6) 5459·5
(1) 5133·8	(1) 5670·5	(6) 5086·7	(1) 5670·5	(4) 5117·5	(4) 5671·5	(4) 5137·8	(1) 5670·5	(2) 5135·5	(3) 5670·5
(4) 5135·5	(2) 5671·5	(3) 5117·5	(2) 5671·5	(3) 5135·5	(1) 5730·0	(3) 5156·0	(2) 5671·5	(1) 5137·8	(4) 5671·5
(5) 5137·8	(4) 5730·0	(1) 5156·0	(4) 5726·5	(1) 5156·0	(2) 5736·0	(1) 5159·5	(4) 5730·0	(3) 5159·5	(2) 5730·0
(6) 5159·5	(5) 5736·0	(2) 5159·5	(5) 5742·0	(2) 5159·5	(6) 5742·0	(2) 5162·2	(5) 5736·0	(4) 5162·2	(5) 5742·0
Lat. - 15°7'		Lat. - 11°0'		Lat. - 10°6'		Lat. - 11°9'		Lat. - 18°5'	
Greenwich No. 3130a.		Greenwich No. 3131a.		Greenwich No. 3133a.		Greenwich No. 3137a.		Greenwich No. 3135a.	
1893. August 18.		1893. August 19.		1893. August 19.		1893. August 19.		1893. August 19.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
(4) 5085·0	(4) 5425·8	(6) 5133·8	(3) 5425·8	(4) 5085·0	(3) 5425·8	(5) 5085·0	(5) 5425·8	(5) 5085·0	(1) 5425·0
(5) 5085·6	(3) 5489·5	(5) 5135·5	(1) 5670·5	(5) 5085·6	(1) 5670·5	(6) 5085·6	(3) 5670·5	(6) 5085·6	(6) 5489·5
(6) 5116·0	(1) 5670·5	(4) 5137·8	(2) 5671·5	(6) 5086·7	(2) 5671·5	(4) 5117·5	(4) 5671·5	(2) 5135·5	(3) 5670·5
(3) 5156·0	(2) 5671·5	(3) 5156·0	(6) 5702·5	(3) 5117·5	(6) 5702·5	(3) 5135·5	(1) 5730·0	(1) 5137·8	(4) 5671·5
(1) 5159·5	(5) 5730·0	(1) 5159·5	(5) 5730·0	(1) 5156·0	(4) 5726·5	(1) 5156·0	(2) 5736·0	(3) 5159·5	(2) 5730·0
(2) 5162·2	(6) 5736·0	(2) 5162·2	(5) 5736·0	(2) 5159·5	(5) 5742·0	(2) 5159·5	(6) 5742·0	(4) 5162·2	(5) 5742·0
Lat. +9°3'		Lat. - 12°3'		Lat. - 10°7'		Lat. - 9°9'		Lat. - 18°6'	

Greenwich No. 3130a.		Greenwich No. 3131a.		Greenwich No. 3133a.		Greenwich No. 3137a.		Greenwich No. 3133a.	
1893. August 19.		1893. August 21.		1893. August 21.		1893. August 21.		1893. August 22.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
(4) 5085.0	(1) 5425.8	(6) 5133.8	(3) 5425.8	(4) 5085.0	(3) 5425.8	(5) 5085.0	(6) 5627.0	(4) 5085.0	5425.8
(5) 5085.6	(3) 5489.5	(5) 5135.5	(1) 5670.5	(5) 5085.6	(1) 5670.5	(6) 5085.6	(3) 5670.5	(5) 5085.6	5670.5
(6) 5116.0	(1) 5670.5	(4) 5137.8	(2) 5671.5	(6) 5086.7	(2) 5671.5	(4) 5117.5	(4) 5671.5	(6) 5086.7	5671.5
(3) 5156.0	(2) 5671.5	(3) 5156.0	(6) 5702.5	(3) 5117.5	(6) 5702.5	(3) 5135.5	(5) 5702.5	(3) 5117.5	5702.5
(1) 5159.5	(5) 5730.0	(1) 5159.5	(4) 5730.0	(1) 5156.0	(4) 5726.5	(1) 5156.0	(1) 5730.0	(1) 5156.0	5726.5
(2) 5162.2	(6) 5736.0	(2) 5162.2	(5) 5736.0	(2) 5159.5	(5) 5742.0	(2) 5159.5	(2) 5736.0	(2) 5159.5	5742.0
Lat. + 9.7°		Lat. - 12.8°		Lat. - 10.4°		Lat. - 10.2°		Lat. - 10.4°	
Greenwich No. 3137a.		Greenwich No. 3133a.		Greenwich No. 3137a.		Greenwich No. 3143a.		Greenwich No. 3133a.	
1893. August 22.		1893. August 24.		1893. August 24.		1893. August 24.		1893. August 25.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
(5) 5085.0	(6) 5627.0	5086.7	5425.8	5085.0	5670.5		5602.5	(1) 5085.0	(3) 5425.8
(6) 5085.6	(3) 5670.5	5140.0	5670.5	5085.6	5671.5		5670.5	(2) 5085.6	(1) 5670.5
(4) 5117.5	(4) 5671.5	5145.0	5671.5	5116.0	5726.5	Cloudy.	5671.5	(3) 5086.3	(2) 5671.5
(3) 5135.5	(5) 5702.5	5156.0	5726.5	5133.8	5730.0		5726.5	(4) 5086.7	(4) 5726.5
(1) 5156.0	(1) 5730.0	5159.5	5730.0	5156.0	5736.0		5730.0	(5) 5156.0	(5) 5730.0
(2) 5159.5	(2) 5736.0	5162.2	5742.0	5159.5	5742.0		5736.0	(6) 5159.5	(6) 5736.0
		5085.0	5459 5460 5736						
Lat. - 10.4°		Lat. - 10.9°		Lat. - 9.6°		Lat. + 9.6°		Lat. - 10.7°	
Greenwich No. 3149a.		Greenwich No. 3137a.		Greenwich No. 3155a.		Greenwich No. 3154b.		Greenwich No. 3156a.	
1893. August 25.		1893. August 25.		1893. August 29.		1893. August 29.		1893. August 29.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
(5) 5085.0	(6) 5425.8	(1) 5085.0	(1) 5670.5	(4) 5085.0	(2) 5459.5		(6) 5459.5		(3) 5426.0
(6) 5085.6	(1) 5670.5	(2) 5085.6	(2) 5671.5	(5) 5086.0	(5) 5670.5		(1) 5627.0		(5) 5469.5
(1) 5133.8	(2) 5671.5	(3) 5112.0	(3) 5726.5	(6) 5133.8	(6) 5671.5		(4) 5670.5		(1) 5670.5
(2) 5135.5	(3) 5726.5	(4) 5116.0	(4) 5730.0	(3) 5135.5	(1) 5726.5		(5) 5671.5		(2) 5671.5
(3) 5137.8	(4) 5730.0	(5) 5156.0	(5) 5736.0	(1) 5159.5	(3) 5730.0		(3) 5702.5		(4) 5702.5
(4) 5156.0	(5) 5736.0	(6) 5159.5	(6) 5742.0	(2) 5162.2	(4) 5736.0		(2) 5730.0		(6) 5730.0
			5425.8						
Lat. - 25.8°		Lat. - 9.2°		Lat. - 13.9°		Lat. - 9.7°		Lat. - 19.3°	

Greenwich No. 3155a.		Greenwich No. 3154b.		Greenwich No. 3156a.		Greenwich No. 3154a.		Greenwich No. 3155a.	
1893. August 30.		1893. August 30.		1893. August 30.		1893. August 30.		1893. September 4.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
(1) 5085.0	(3) 5425.8	(1) 5133.8	(6) 5459.5	(1) 5085.0	(3) 5425.8	(1) 5133.8	(3) 5425.8	Cloudy.	5425.8
(2) 5086.0	(1) 5670.5	(2) 5135.5	(1) 5670.5	(2) 5085.6	(4) 5459.5	(2) 5135.5	(6) 5459.5		5670.5
(3) 5133.8	(2) 5671.5	(3) 5137.8	(2) 5671.5	(3) 5086.3	(5) 5460.5	(3) 5137.8	(1) 5670.5		5671.5
(4) 5135.5	(4) 5726.5	(4) 5156.0	(3) 5726.5	(4) 5086.7	(1) 5670.5	(4) 5156.0	(2) 5671.5		5726.5
(5) 5159.5	(5) 5730.0	(5) 5159.5	(4) 5730.0	(5) 5159.5	(2) 5671.5	(5) 5159.5	(4) 5730.0		5730.0
(6) 5162.2	(6) 5736.0	(6) 5162.2	(5) 5736.0	(6) 5162.2	(6) 5730.0	(6) 5162.2	(5) 5736.0		5736.0
									5742.0 5866.0
Lat. + 13.9°		Lat. - 9.5°		Lat. - 19.2°		Lat. - 10.5°		Lat. + 14.3°	
Greenwich No. 3155a.		Greenwich No. 3154b.		Greenwich No. 3156a.		Greenwich No. 3168a.		Greenwich No. 3155a.	
1893. September 5.		1893. September 5.		1893. September 5.		1893. September 5.		1893. September 6.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5092.0	5425.8	5093.0	5480.7	5133.8	5450.0	5110.7	5480.7	5085.0	5425.8
5093.0	5670.5	5110.7	5670.5	5135.5	5451.0	5133.8	5670.5	5085.6	5670.5
5133.8	5671.5	5135.5	5671.5	5137.8	5670.5	5135.5	5671.5	5086.3	5671.5
5156.0	5726.5	5137.8	5726.5	5156.0	5671.5	5137.8	5726.0	5086.7	5726.5
5159.5	5730.0	5156.0	5730.0	5159.5	5726.5	5156.0	5730.0	5159.5	5730.0
5162.2	5736.0	5162.2	5742.0	5162.2	5730.0	5162.2	5736.0	5162.5	5736.0
	5742.0				5736.0 5742.0		5742.0		
Lat. + 14.2°		Lat. - 10.0°		Lat. - 18.9°		Lat. - 7.1°		Lat. + 14.0°	
Greenwich No. 3154b.		Greenwich No. 3155a.		Greenwich No. 3168a.		Greenwich No. 3173a.		Greenwich No. 3168a.	
1893. September 6.		1893. September 7.		1893. September 11.		1893. September 11.		1893. September 12.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5133.8	5459.5	5110.7	5459.5	(3) 5085.0	(5) 5459.5	(3) 5085.0	(1) 5670.5	5085.0	5670.5
5135.5	5460.5	5133.8	5460.5	(4) 5085.6	(1) 5670.5	(4) 5085.6	(2) 5671.5	5085.6	5671.5
5137.8	5670.5	5135.5	5670.5	(6) 5086.3	(2) 5671.5	(6) 5086.3	(3) 5726.5	5133.8	5726.5
5156.0	5671.5	5137.8	5671.5	(5) 5086.7	(3) 5726.5	(5) 5086.7	(4) 5730.0	5135.5	5730.0
5159.5	5726.5	5156.0	5726.5	(1) 5135.5	(6) 5730.0	(1) 5135.5	(5) 5736.0	5137.8	5736.0
5162.5	5736.0	5162.2	5730.0	(2) 5137.8	(4) 5736.0	(2) 5137.8	(6) 5738.0	5162.2	5738.0
			5736.0						
Lat. - 10.7°		Lat. + 14.4°		Lat. - 7.2°		Lat. - 8.1°		Lat. - 6.6°	

Greenwich No. 3173a.		Greenwich No. 3168a.		Greenwich No. 3173a.		Greenwich No. 3177a.		Greenwich No. 3173a.	
1893. September 12.		1893. September 13.		1893. September 13.		1893. September 13.		1893. September 14.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
(5) 5085.0	(1) 5670.5	(1) 5085.0	(6) 5459.5	(5) 5085.0	(1) 5670.5	Cloudy.	(6) 5459.5	(5) 5085.0	(5) 5425.8
(6) 5085.6	(2) 5671.5	(2) 5085.6	(2) 5670.5	(6) 5085.6	(2) 5671.5		(2) 5670.5	(6) 5085.6	(1) 5670.5
(2) 5133.8	(3) 5726.5	(3) 5086.3	(3) 5671.5	(1) 5133.8	(3) 5726.5		(3) 5671.5	(1) 5133.8	(2) 5671.5
(4) 5135.5	(4) 5730.0	(4) 5086.7	(4) 5726.5	(2) 5135.5	(4) 5730.0		(4) 5726.5	(2) 5135.5	(3) 5726.5
(3) 5137.8	(5) 5736.0	(5) 5133.8	(5) 5730.0	(3) 5137.8	(5) 5736.0		(5) 5730.0	(3) 5137.8	(4) 5730.0
(1) 5162.2	(6) 5738.0	(6) 5135.5	(1) 5736.0	(4) 5162.2	(6) 5738.0		(1) 5736.0	(4) 5162.2	(6) 5736.0
Lat. - 7.6°		Lat. - 6.8°		Lat. - 7.5°		Lat. - 22.5°		Lat. - 7.5°	
Greenwich No. 3173a.		Greenwich No. 3186a.		Greenwich No. 3186a.		Greenwich No. 3187a.		Greenwich No. 3186a.	
1893. September 15.		1893. September 15.		1893. September 20.		1893. September 20.		1893. September 22.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
(6) 5085.0	(1) 5670.5	(3) 5085.0	(1) 5670.5	(6) 5085.0	(1) 5670.5	(5) 5085.0	(6) 5441.5	5085.0	5425.8
(5) 5085.6	(2) 5671.5	(4) 5085.6	(2) 5671.5	(5) 5085.6	(2) 5671.5	(4) 5085.6	(1) 5670.5	5085.6	5459.5
(1) 5133.8	(5) 5726.5	(6) 5086.3	(4) 5726.5	(1) 5133.8	(4) 5726.5	(1) 5133.8	(2) 5671.5	5116.0	5670.5
(3) 5135.5	(4) 5730.0	(5) 5086.7	(6) 5730.0	(2) 5137.8	(6) 5730.0	(2) 5135.5	(3) 5726.5	5133.8	5671.5
(2) 5137.8	(3) 5736.0	(1) 5133.8	(3) 5736.0	(3) 5156.0	(5) 5736.0	(6) 5137.8	(5) 5730.0	5135.5	5726.5
(4) 5161.2	(6) 5742.0	(2) 5135.5	(5) 5742.0	(4) 5159.5	(3) 5742.0	(3) 5156.0	(4) 5736.0	5137.8	5730.0
Lat. - 7.5°		Lat. + 8.2°		Lat. + 8.5°		Lat. - 7.5°		Lat. + 9.0	
Greenwich No. 3187a.		Greenwich No. 3203a.		Greenwich No. 3206a.		Greenwich No. 3206c.		Greenwich No. 3203a.	
1893. September 22.		1893. September 29.		1893. September 29.		1893. September 29.		1893. September 30.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5085.0	5459.5	5134.0	5425.8	5135.5	5425.0	5137.8	5459.5	(2) 5133.8	(1) 5670.5
5085.6	5489.0	5137.8	5489.7	5137.8	5460.0	5139.0	5480.7	(3) 5135.5	(2) 5671.5
5133.8	5726.5	5143.0	5670.5	5143.0	5671.5	5143.0	5670.5	(6) 5137.8	(4) 5726.5
5135.5	5730.0	5156.0	5671.5	5156.0	5726.5	5156.0	5671.5	(4) 5156.0	(5) 5730.0
5137.8	5736.0	5159.5	5726.5	5159.5	5730.0	5159.5	5726.5	(5) 5159.5	(3) 5736.0
5156.0	5742.0	5162.2	5730.0	5162.2	5736.0	5162.2	5730.0	(1) 5162.2	(6) 5742.0
Lat. - 7.5°		Lat. - 13.1°		Lat. - 7.3°		Lat. - 9.2°		Lat. - 12.0°	

Greenwich No. 3206a.		Greenwich No. 5203a.		Greenwich No. 3206a.		Greenwich No. 3202a.		Greenwich No. 3207a.	
1893. September 30.		1893. October 2.		1893. October 2.		1893. October 2.		1893. October 2.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
(2) 5133·8	(6) 5459·5	(2) 5133·8	(6) 5425·0	(4) 5133·8	(1) 5670·5	(4) 5133·8	(1) 5670·5	(2) 5133·8	(6) 5425·0
(3) 5135·5	(1) 5670·5	(3) 5135·5	(5) 5459·5	(5) 5135·5	(2) 5671·5	(5) 5135·5	(2) 5671·5	(3) 5135·5	(5) 5459·5
(6) 5137·8	(2) 5671·5	(6) 5137·8	(1) 5670·5	(6) 5137·8	(3) 5726·5	(6) 5137·8	(3) 5726·5	(6) 5137·8	(1) 5670·5
(4) 5156·0	(4) 5726·5	(4) 5156·0	(2) 5671·5	(1) 5156·0	(4) 5736·0	(1) 5156·0	(4) 5736·0	(4) 5156·0	(2) 5671·5
(5) 5159·5	(5) 5730·0	(5) 5159·5	(4) 5726·5	(3) 5159·5	(6) 5730·0	(3) 5159·5	(6) 5730·0	(5) 5159·5	(4) 5726·5
(1) 5162·2	(3) 5736·0	(1) 5162·2	(3) 5736·0	(2) 5162·2	(5) 5742·0	(2) 5162·2	(5) 5742·0	(1) 5162·2	(3) 5736·0
Lat. + 7·4°		Lat. + 12·7°		Lat. + 6·9°		Lat. - 11·2°		Lat. + 2·9°	
Greenwich No. 3203a.		Greenwich No. 3206a.		Greenwich No. 3202a.		Greenwich No. 3207a.		Greenwich No. 3203a.	
1893. October 3.		1893. October 3.		1893. October 3.		1893. October 3.		1893. October 4.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
(2) 5133·8	(4) 5425·8	(2) 5133·8	(1) 5670·5	(2) 5133·8	(1) 5670·5	(2) 5133·8	(4) 5425·8	(2) 5133·8	(3) 5425·8
(4) 5135·5	(1) 5670·5	(5) 5135·5	(2) 5671·5	(5) 5135·5	(2) 5671·5	(4) 5135·5	(1) 5670·5	(4) 5135·5	(1) 5670·5
(5) 5137·8	(2) 5671·5	(4) 5137·8	(3) 5726·5	(4) 5137·8	(3) 5726·5	(5) 5137·8	(2) 5671·5	(5) 5137·8	(2) 5671·5
(1) 5156·0	(5) 5726·5	(1) 5156·0	(6) 5730·0	(1) 5156·0	(6) 5730·0	(1) 5156·0	(5) 5726·5	(1) 5157·0	(5) 5726·5
(6) 5159·5	(6) 5730·0	(6) 5159·5	(4) 5736·0	(6) 5159·5	(4) 5736·0	(6) 5159·5	(6) 5730·0	(6) 5159·5	(6) 5730·0
(3) 5162·2	(3) 5736·0	(3) 5162·2	(5) 5742·0	(3) 5162·2	(5) 5742·0	(3) 5162·2	(3) 5736·0	(3) 5162·2	(4) 5736·0
Lat. + 12·5°		Lat. + 6·8°		Lat. - 11·5°		Lat. + 3·0°		Lat. + 12·5°	
Greenwich No. 3206a.		Greenwich No. 3202a.		Greenwich No. 3207a.		Greenwich No. 3203a.		Greenwich No. 3207a.	
1893. October 4.		1893. October 4.		1893. October 4.		1893. October 5.		1893. October 5.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
(2) 5133·8	(1) 5670·5	(2) 5133·8	(1) 5670·5	(2) 5133·8	(3) 5425·8	(1) 5133·8	(3) 5425·8	(1) 5133·8	(1) 5670·5
(4) 5135·5	(2) 5671·5	(4) 5135·5	(2) 5671·5	(4) 5135·5	(1) 5670·5	(6) 5135·5	(1) 5670·5	(6) 5135·5	(2) 5671·5
(5) 5137·8	(3) 5726·5	(5) 5137·8	(3) 5726·5	(5) 5137·8	(2) 5671·5	(4) 5137·8	(2) 5671·5	(4) 5137·8	(3) 5726·5
(1) 5157·0	(6) 5730·0	(1) 5157·0	(6) 5730·0	(1) 5157·0	(4) 5726·5	(2) 5157·0	(4) 5726·5	(2) 5157·0	(6) 5730·0
(6) 5159·5	(4) 5736·0	(6) 5159·5	(4) 5736·0	(6) 5159·5	(6) 5730·0	(5) 5159·5	(5) 5730·0	(5) 5159·5	(4) 5736·0
(3) 5162·2	(5) 5742·0	(3) 5162·2	(5) 5742·0	(3) 5162·2	(4) 5736·0	(3) 5162·2	(6) 5742·0	(3) 5162·2	(5) 5742·0
Lat. + 6·7°		Lat. - 11·5°		Lat. + 2·9°		Lat. + 12·4°		Lat. + 3·1°	

Greenwich No. 3207a.		Greenwich No. 3216a.		Greenwich No. 3207a.		Greenwich No. 3216a.		Greenwich No. 3207a.	
1893. October 6.		1893. October 6.		1893. October 7.		1893. October 7.		1893. October 9.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
(1) 5133.8	(5) 5425.8	(1) 5133.8	(6) 5425.8	(1) 5133.8	(3) 5425.8	(1) 5133.8	(1) 5425.8	(1) 5133.8	(5) 5425.8
(2) 5135.5	(1) 5670.5	(2) 5135.5	(1) 5670.5	(6) 5135.5	(1) 5670.5	(6) 5135.5	(2) 5670.5	(5) 5135.5	(1) 5670.5
(3) 5137.8	(2) 5671.5	(3) 5137.8	(2) 5671.5	(2) 5137.8	(2) 5671.5	(2) 5137.8	(3) 5671.5	(3) 5137.8	(2) 5671.5
(4) 5157.0	(3) 5726.5	(4) 5157.0	(3) 5726.5	(3) 5157.0	(4) 5726.5	(3) 5157.0	(4) 5726.5	(4) 5157.0	(3) 5726.5
(5) 5159.5	(4) 5730.0	(5) 5159.5	(4) 5730.0	(4) 5159.5	(5) 5730.0	(4) 5159.5	(5) 5730.0	(6) 5159.5	(4) 5730.0
(6) 5162.2	(6) 5742.0	(6) 5162.2	(5) 5742.0	(5) 5162.2	(6) 5742.0	(5) 5162.2	(6) 5736.0	(2) 5162.2	(6) 5736.0
			5736.0				5742.0		
Lat. + 2.2°		Lat. - 8.0°		Lat. + 2.9°		Lat. - 8.1°		Lat. + 2.2°	
Greenwich No. 3216a.		Greenwich No. 3221a.		Greenwich No. 3224a.		Greenwich No. 3216a.		Greenwich No. 3227a.	
1893. October 9.		1893. October 10.		1893. October 10.		1893. October 10.		1893. October 12.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
(1) 5133.8	(1) 5425.8	(6) 5085.0	(3) 5425.8	(6) 5085.0	(3) 5425.8	(1) 5133.8	(4) 5425.8	5086.3	5425.8
(3) 5135.5	(2) 5670.5	(5) 5085.6	(5) 5459.0	(5) 5085.6	(5) 5459.0	(2) 5135.5	(5) 5459.0	5086.7	5459.5
(2) 5137.8	(3) 5671.5	(1) 5133.8	(1) 5670.5	(1) 5133.8	(1) 5670.5	(3) 5137.8	(1) 5670.5	5116.0	5670.5
(6) 5157.0	(4) 5726.5	(3) 5137.8	(2) 5671.5	(3) 5137.8	(2) 5671.5	(4) 5157.0	(2) 5671.5	5156.0	5671.5
(4) 5159.5	(5) 5730.0	(2) 5157.0	(4) 5726.5	(2) 5157.0	(4) 5726.5	(6) 5159.5	(3) 5726.5	5159.5	5726.5
(5) 5162.2	(6) 5742.0	(4) 5162.2	(6) 5742.0	(4) 5162.2	(6) 5742.0	(5) 5162.2	(6) 5730.0	5162.2	5730.0
Lat. - 8.5°		Lat. - 15.2°		Lat. - 11.2°		Lat. - 8.1°		Lat. + 24.3°	
Greenwich No. 3221a.		Greenwich No. 3224a.		Greenwich No. 3227a.		Greenwich No. 3238b.		Greenwich No. 3227a.	
1893. October 12.		1893. October 12.		1893. October 13.		1893. October 18.		1893. October 18.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5061.5	5425.8	5085.0	5425.8		5670.5	5116.0	5425.8	5133.8	5425.0
5085.0	5670.5	5085.6	5670.5		5671.5	5133.8	5670.5	5135.5	5626.0
5085.6	5671.5	5086.3	5671.5		5726.5	5135.5	5671.5	5137.8	5627.5
5086.3	5726.5	5086.7	5726.5	Cloudy.	5730.0	5137.8	5726.0	5156.0	5726.0
5086.7	5736.0	5156.0	5730.0		5736.0	5159	5730.0	5159.5	5730.0
5156.0	5742.0	5159.5	5742.0		5742.0	5162	5736.0	5162.0	5736.0
						5111.0	5742.0		
Lat. - 15.1°		Lat. - 11.6°		Lat. - 21.8°		Lat. - 13.0°		Lat. - 20.6°	

Greenwich No. 3222b.		Greenwich No. 3227a.		Greenwich No. 3232b.		Greenwich No. 3238b.		Greenwich No. 3243b.	
1893. October 18.		1893. October 19.		1893. October 19.		1893. October 19.		1893. October 19.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5085.0	5425.0	5085.0	5425.8	5116.0	5425.8	5085.0	5425.8	5133.8	5425.8
5088.0	5670.5	5085.6	5489.5	5133.8	5459.5	5085.6	5670.5	5135.5	5670.5
5133.8	5671.5	5133.8	5670.5	5135.5	5670.5	5116.0	5671.5	5137.8	5671.5
5135.5	5726.0	5135.5	5671.5	5137.8	5671.5	5133.8	5726.5	5156.0	5736.0
5137.8	5730.0	5137.8	5736.0	5156.0	5736.0	5135.5	5736.0	5159.5	5742.0
5162.0	5736.0	5156.0	5742.0	5159.5	5742.0	5137.8	5742.0	5162.2	5865.0
Lat. + 11.8°		Lat. + 22.2°		Lat. + 12.0°		Lat. - 13.1°		Lat. - 18.6°	
Greenwich No. 3227a.		Greenwich No. 3232b.		Greenwich No. 3238b.		Greenwich No. 3244a.		Greenwich No. 3232b.	
1893. October 20.		1893. October 20.		1893. October 20.		1893. October 20.		1893. October 23.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5085.0	5459.5	5116.0	5425.8	5085.0	5425.8	5133.8	5425.8	5116.0	5425.8
5085.6	5489.5	5133.8	5459.5	5085.6	5670.5	5135.5	5670.5	5133.8	5459.5
5133.8	5670.5	5135.5	5670.5	5116.0	5671.5	5137.8	5671.5	5135.5	5489.0
5135.5	5671.5	5137.8	5671.5	5133.8	5726.5	5156.0	5730.0	5137.8	5736.0
5137.8	5736.0	5156.0	5736.0	5135.5	5736.0	5159.5	5736.0	5156.0	5742.0
5156.0	5742.0	5159.5	5742.0	5137.8	5742.0	5162.2	5742.0	5162.2	5865.0
Lat. + 20.9°		Lat. + 11.3°		Lat. - 13.6°		Lat. - 5.8°		Lat. + 13.0°	
Greenwich No. 3244a.		Greenwich No. 3250a.		Greenwich No. 3244c.		Greenwich No. 3244a.		Greenwich No. 3250a.	
1893. October 23.		1893. October 23.		1893. October 26.		1893. October 26.		1893. October 26.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5085.0	5425.8	5085.0	5670.5	5086.3	5425.8	5085.0	5425.8	5092.0	5670.5
5085.6	5489.5	5085.6	5671.5	5086.7	5670.5	5085.6	5670.5	5093.0	5671.5
5133.8	5670.5	5116.0	5726.5	5133.8	5671.5	5086.3	5671.5	5116.0	5726.5
5135.5	5671.5	5133.8	5730.0	5135.5	5730.0	5086.7	5726.5	5133.8	5730.0
5137.8	5736.0	5135.5	5736.0	5137.8	5736.0	5133.8	5730.0	5135.5	5736.0
5156.0	5742.0	5137.8	5742.0	5156.0	5865.0	5135.5	5736.0	5137.8	5742.0
Lat. - 6.9°		Lat. + 13.6°		Lat. - 6.7°		Lat. - 6.8°		Lat. + 14.5°	

Greenwich No. 3253a.		Greenwich No. 3254a.		Greenwich No. 3255a.		Greenwich No. 3256a.		Greenwich No. 3257a.		Greenwich No. 3258a.	
1893. October 26.		1893. October 27.		1893. October 27.		1893. October 27.		1893. October 27.		1893. October 27.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5116.0	5455.5	5086.3	5425.8	5116.0	5670.5	5085.0	5425.8	5116.0	5489.0		
5133.8	5489.5	5086.7	5670.5	5133.8	5671.5	5085.6	5670.5	5133.8	5490.0		
5135.5	5670.5	5116.0	5671.5	5135.5	5726.5	5086.3	5671.5	5135.5	5670.5		
5137.8	5671.5	5133.8	5726.5	5137.8	5742.0	5086.7	5736.0	5137.8	5671.5		
5156.0	5726.5	5135.5	5736.0	5156.0	5865.0	5092.0	5742.0	5156.0	5726.5		
5159.5	5736.0	5137.8	5742.0	5162.2	5872.0	5093.0	5872.0	5162.2	5730.0		
Lat. - 7.8°		Lat. - 6.5°		Lat. + 18.2°		Lat. + 14.2°		Lat. - 8.2°			
Greenwich No. 3254a.		Greenwich No. 3246.		Greenwich No. 3250a.		Greenwich No. 3254b.		Greenwich No. 3255a.		Greenwich No. 3256a.	
1893. October 27.		1893. October 27.		1893. October 30.		1893. October 30.		1893. October 30.		1893. October 31.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5086.3	5425.8	5110.7	5670.5	5110.7	5425.8	5085.0	5670.5	5085.0	5425.8		
5086.7	5670.5	5116.0	5671.5	5116.0	5627.0	5085.6	5671.5	5085.6	5670.5		
5116.0	5671.5	5133.8	5726.5	5133.8	5670.5	5116.0	5726.5	5133.8	5671.5		
5156.0	5726.5	5135.5	5736.0	5135.5	5671.5	5133.8	5730.0	5135.5	5726.5		
5159.5	5730.0	5137.8	5742.0	5137.8	5726.5	5133.5	5736.0	5137.8	5730.0		
5162.2	5736.0	5162.2	5865.0	5156.0	5736.0	5137.8	5742.0	5156.0	5736.0		
Lat. 5.6°		Lat. 7.8°		Lat. + 13.9°		Lat. - 7.7°		Lat. + 13.9°			
Greenwich No. 3258a.		Greenwich No. 3254b.		Greenwich No. 3261a.		Greenwich No. 3263a.		Greenwich No. 3268a.		Greenwich No. 3268a.	
1893. October 31.		1893. October 31.		1893. October 31.		1893. November 7.		1893. November 13.		1893. November 13.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5085.0	5670.5	5085.0	5670.5	5086.3	5218.8	5061.5	5425.8	5085.0	5670.5		
5085.6	5671.5	5085.6	5671.5	5086.7	5425.8	5133.8	5670.5	5085.6	5671.5		
5116.0	5726.5	5116.0	5726.5	5110.7	5459.5	5135.5	5671.5	5086.3	5726.5		
5133.8	5730.0	5133.8	5730.0	5116.0	5460.5	5137.8	5736.0	5086.7	5530.0		
5135.5	5736.0	5135.5	5736.0	5156.0	5670.5	5156.0	5742.0	5110.7	5736.0		
5137.8	5742.0	5137.8	5865.0	5162.2	5671.5	5162.2	5865.0	5116.0	5742.0		
Lat. 4.4°		Lat. 8.8°		Lat. - 7.5°		Lat. + 5.4°		Lat. + 10.6°			

Greenwich No. 3269a.		Greenwich No. 3269b.		Greenwich No. 3272a.		Greenwich No. 3270a.		Greenwich No. 3276a.	
1893. November 13.		1893. November 13.		1893. November 13.		1893. November 13.		1893. November 13.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5085.0	5218.8	5085.6	5425.8	5019.2	5218.8	5061.2	5425.8	5110.7	5425.8
5085.6	5425.8	5086.3	5670.5	5085.0	5425.8	5086.3	5489.5	5116.0	5459.5
5086.3	5489.5	5086.7	5671.5	5085.6	5459.5	5086.7	5670.5	5123.8	5670.5
5086.7	5627.5	5133.8	5730.0	5133.8	5489.5	5133.8	5671.5	5135.5	5671.5
5092.0	5670.5	5135.5	5736.0	5135.5	5670.5	5135.5	5726.5	5137.8	5726.5
5093.0	5671.5	5137.8	5742.0	5137.8	5671.5	5137.8	5730.0	5156.0	5730.0
Lat. - 6.3°		Lat. - 6.0°		Lat. + 10.9°		Lat. + 22.3°		Lat. + 20.5°	
Greenwich No. 3281.		Greenwich No. 3287a.		Greenwich No. 3290a.		Greenwich No. 3295a.		Greenwich No. 3298a.	
1893. November 23.		1893. November 23.		1893. December 2.		1893. December 2.		1893. December 2.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5133.8	5459.5	5112.0	5425.8	5116.0	5425.8	5112.0	5218.8	5133.8	5425.8
5135.5	5489.5	5116.0	5459.5	5133.8	5670.5	5133.8	5459.5	5135.5	5459.5
5137.8	5490.5	5123.8	5489.5	5135.5	5671.5	5135.5	5670.5	5137.8	5670.5
5156.0	5670.5	5135.5	5490.5	5137.8	5726.5	5137.8	5671.5	5156.0	5671.5
5159.5	5671.5	5137.8	5726.5	5149.2	5730.0	5156.0	5736.0	5159.5	5730.0
5162.2	5866.0	5156.0	5730.0	5156.0	5736.0	5159.5	5742.0	5162.2	5736.0
Lat. - 3.5°		Lat. + 18.0°		Lat. + 16.9°		Lat. + 19.0°		Lat. + 19.1°	
Greenwich No. 3295a.		Greenwich No. 3298a.		Greenwich No. 3305a.		Greenwich No. 3307a.		Greenwich No. 3309a.	
1893. December 7.		1893. December 7.		1893. December 21.		1893. December 21.		1893. December 21.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5133.8	5425.8	5085.0	5425.8	5133.8	5425.8	5133.8	5218.8	5133.8	5425.8
5135.5	5459.5	5085.6	5670.5	5135.5	5670.5	5135.5	5425.8	5135.5	5489.0
5137.8	5670.5	5116.0	5671.5	5137.8	5671.5	5137.8	5459.5	5137.8	5670.5
5159.5	5671.5	5133.8	5726.5	5156.0	5726.5	5149.2	5489.0	5149.2	5671.5
5156.0	5726.5	5135.5	5730.0	5159.5	5730.0	5156.0	5670.5	5156.0	5736.0
5162.2	5730.0	5137.8	5736.0	5162.2	5736.0	5159.9	5671.5	5159.5	5742.0
Lat. + 19.6°		Lat. + 19.2°		Lat. - 0.4°		Lat. + 10.6°		Lat. - 5.1°	

Greenwich No. 3313a.		Greenwich No. 3316a.		Greenwich No. 3305a.		Greenwich No. 3307a.		Greenwich No. 3309a.	
1893. December 21.		1893. December 21.		1893. December 23.		1893. December 23.		1893. December 23.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5085.0	5425.8	5085.0	5670.5	5116.0	5425.8	5133.8	5425.8	5085.0	5218.8
5085.6	5670.5	5085.6	5671.5	5133.8	5459.5	5135.5	5459.5	5085.6	5425.8
5116.0	5671.5	5133.8	5726.5	5135.5	5670.5	5137.8	5460.5	5133.8	5670.5
5133.8	5736.0	5135.5	5730.0	5137.8	5671.5	5149.2	5489.0	5135.5	5671.5
5135.5	5742.0	5137.8	5736.0	5156.0	5730.0	5156.0	5670.5	5137.8	5736.0
5137.8	5805.0	5149.2	5742.0	5159.5	5736.0	5159.5	5671.5	5149.2	5742.0
Lat. + 10.7°		Lat. - 26.9°		Lat. - 0.1°		Lat. + 10.0°		Lat. - 5.0°	
Greenwich No. 3313a.		Greenwich No. 3313a.		Greenwich No. 3318a.		Greenwich No. 3325a.		Greenwich	
1893. December 23.		1893. December 26.		1893. December 26.		1893. December 26.		1893. December 27-31.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	No record of widened lines in consequence of un- favourable weather.	
5085.0	5425.8	5085.0	5425.8	5061.2	5425.8	5133.8	5425.8		
5085.6	5670.5	5085.6	5459.5	5133.8	5627.5	5135.5	5459.5		
5133.8	5671.5	5133.8	5670.5	5135.5	5670.5	5137.8	5460.5		
5135.5	5730.0	5135.5	5671.5	5137.8	5671.5	5149.2	5489.0		
5137.8	5736.0	5137.8	5736.0	5149.2	5730.0	5156.0	5670.5		
5156.0	5742.0	5156.0	5742.0	5156.0	5736.0	5162.2	5671.5		
HERE END THE OBSERVATIONS MADE ON ÅNGSTRÖM'S SCALE.									
Lat. + 11.5°		Lat. - 12.0°		Lat. - 3.2°		Lat. - 7.4°			

THE WAVE LENGTHS OF THE WIDENED LINES RECORDED BETWEEN: 1894. JANUARY 5TH AND
1897. DECEMBER 15TH, ARE GIVEN ON ROWLAND'S SCALE.

HERE BEGIN THE OBSERVATIONS MADE ON THE SCALE OF ROWLAND'S SECOND SERIES.

Greenwich No. 3325a.		Greenwich No. 3345a.		Greenwich No. 3345c.		Greenwich No. 3354a.		Greenwich No. 3356a.	
1894. January 5.		1894. January 5.		1894. January 12.		1894. January 12.		1894. January 12.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
Hazy.	5427.0	5134.7	5427.0	5087.2	5460.6	5134.7	5427.0	5111.9	5427.0
	5671.1	5136.3	5671.1	5087.6	5461.7	5136.3	5671.1	5117.0	5460.6
	5672.1	5138.6	5672.1	5117.0	5490.3	5138.6	5672.1	5134.7	5461.7
	5737.8	5156.8	5727.8	5134.7	5671.1	5156.8	5727.8	5136.3	5671.1
	5743.2	5160.3	5731.5	5136.3	5672.1	5160.3	5731.5	5138.6	5672.1
	5865.9	5163.0	5737.8	5138.6	5743.2	5163.0	5743.2	5156.8	5737.8
Lat. - 7.3°		Lat. - 14.0°		Lat. - 14.8°		Lat. - 13.1°		Lat. + 12.7°	
Greenwich No. 3334a.		Greenwich No. 3352.		Greenwich No. 3367a.		Greenwich No. 3363a.		Greenwich No. 3360a.	
1894. January 16.		1894. January 18.		1894. January 19.		1894. January 19.		1894. January 19.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5111.9	5671.1		5671.1	5087.2	5427.0	5111.9	5427.0	5085.6	5427.0
5117.0	5672.1		5672.1	5087.6	5460.6	5117.0	5671.1	5086.5	5628.8
5134.7	5727.8		5727.8	5117.0	5671.1	5134.6	5672.1	5134.6	5671.1
5136.3	5731.5		5731.3	5134.6	5672.1	5136.3	5727.8	5136.3	5672.1
5138.6	5737.8		5737.8	5136.3	5727.8	5138.6	5731.3	5138.6	5727.8
5156.8	5743.2		5743.2	5138.6	5731.3	5156.8	5743.2	5156.8	5743.2
Lat. - 13.5°		Lat. - 2.3°		Lat. - 3.0°		Lat. - 5.8°		Lat. - 14.8°	

Greenwich No. 3372a.		Greenwich No. 3385a.		Greenwich No. 3380a.		Greenwich No. 3385a.		Greenwich No. 3385b.	
1894. January 30.		1894. February 1.		1894. February 1.		1894. February 3.		1894. February 3.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5117·0	5427·0	5085·6	5671·1	5087·2	5427·0	5087·2	5427·0	5117·0	5427·0
5118·1	5671·1	5086·5	5672·1	5087·6	5460·6	5087·6	5460·6	5118·1	5460·6
5119·3	5672·1	5117·0	5727·8	5117·0	5671·1	5134·6	5671·1	5119·3	5671·1
5134·6	5727·8	5134·6	5731·3	5134·6	5672·1	5136·3	5672·1	5134·6	5672·1
5136·3	5731·3	5136·3	5737·8	5136·3	5727·8	5138·6	5737·8	5136·3	5737·8
5138·6	5737·8	5138·6	5743·2	5138·6	5731·3	5150·2	5743·2	5138·6	5866·6
Lat. - 7·5°		Lat. - 18·7°		Lat. - 8·2°		Lat. - 18·1		Lat. - 18·9°	
Greenwich No. 3389a.		Greenwich No. 3385a.		Greenwich No. 3392a.		Greenwich No. 3396a.		Greenwich No. 3402a.	
1894. February 3.		1894. February 8.		1894. February 8.		1894. February 12.		1894. February 12.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5117·0	5671·1	5117·0	5427·0	5087·2	5427·0	5087·2	5460·6	5085·6	5427·0
5134·6	5672·1	5118·1	5671·1	5087·6	5460·6	5087·6	5671·1	5086·5	5460·6
5136·3	5727·8	5119·3	5672·1	5117·0	5671·1	5117·0	5672·1	5087·2	5490·4
5138·6	5731·3	5134·6	5727·8	5118·1	5672·1	5134·6	5727·8	5087·6	5671·1
5150·2	5737·8	5136·3	5731·3	5119·3	5727·8	5136·3	5731·3	5117·0	5672·1
5156·8	5743·2	5138·6	5737·8	5156·8	5731·3	5138·6	5737·8	5156·8	5727·8
Lat. + 15·1°		Lat. - 17·5°		Lat. - 10·9°		Lat. + 10·7°		Lat. + 16·5°	
Greenwich No. 3401a.		Greenwich No. 3412a.		Greenwich No. 3402a.		Greenwich No. 3401a.		Greenwich No. 3412a.	
1894. February 12.		1894. February 19.		1894. February 19.		1894. February 19.		1894. February 20.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5087·2	5460·6	5087·2	5427·0	5117·0	5460·6	5085·6	5219·7	5087·2	5427·0
5087·6	5671·1	5087·6	5671·1	5118·1	5671·1	5086·5	5460·6	5087·6	5671·1
5117·0	5672·1	5117·0	5672·1	5119·3	5672·1	5087·2	5671·1	5117·0	5672·1
5118·1	5727·8	5134·6	5727·8	5134·6	5727·8	5087·6	5672·1	5134·6	5727·8
5119·3	5737·8	5136·3	5731·3	5136·3	5731·3	5150·2	5727·8	5136·3	5731·3
5156·8	5743·2	5138·6	5737·8	5138·6	5737·8	5156·8	5731·3	5138·6	5737·8
Lat. - 14·4°		Lat. - 32·2°		Lat. + 17·3°		Lat. - 15·0°		Lat. - 32·1°	

Greenwich No. 3412.		Greenwich No. 3417a.		Greenwich No. 3413a.		Greenwich No. 3420b.		Greenwich No. 3413a.	
1894. February 27.		1894. February 27.		1894. February 27.		1894. February 27.		1894. March 2.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5086.5	5427.0		5671.1		5671.1	5086.5	5427.0	5117.0	5427.0
5098.0	5671.1		5672.1		5672.1	5098	5671.1	5118.1	5460.6
5108.6	5672.1		5727.8		5727.8	5108.6	5672.1	5134.6	5671.1
5163.2	5727.8	Cloudy.	5731.3	Cloudy.	5731.3	5163.2	5727.8	5136.3	5672.1
	5731.3		5737.8		5737.8		5731.3	5138.6	5727.8
	5737.8		5743.2		5743.2		5737.8	5156.8	5731.3
Lat. - 30.7°		Lat. - 15.7°		Lat. - 25.9°		Lat. - 15.3°		Lat. - 26.0°	
Greenwich No. 3422a.		Greenwich No. 3442a.		Greenwich No. 3438a.		Greenwich No. 3438d.		Greenwich No. 3442a.	
1894. March 1.		1894. March 13.		1894. March 13.		1894. March 14.		1894. March 14.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5117.0	5427.0	5087.2	5427.0		5427.0	5117.0	5427.0	5085.6	5427.0
5118.1	5460.6	5095.5	5671.1		5727.8	5118.1	5460.0	5086.5	5671.1
5134.6	5671.1	5112.2	5672.1		5731.3	5119.3	5627.8	5087.2	5672.1
5136.3	5672.1	5117.0	5727.8		5737.8	5134.6	5671.1	5087.6	5727.8
5138.6	5727.8	5119.3	5731.3		5743.2	5136.3	5672.1	5134.6	5731.3
5156.8	5731.3	5163.0	5737.8			5138.6	5737.8	5136.3	5737.8
								5138.6	
Lat. + 7.5°		Lat. - 4.2°		Lat. + 15.5°		Lat. - 15.1°		Lat. - 4.1°	
Greenwich No. 3442a.		Greenwich No. 3438c. 3438d.		Greenwich No. 3443a.		Greenwich No. 3450a.		Greenwich No. 3450b.	
1894. March 15.		1894. March 16.		1894. March 16.		1894. March 21.		1894. March 21.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5062.0	5427.0	5117.0	5427.0	5087.2	5427.0	5087.2	5427.0	5117.0	5427.0
5117.0	5671.1	5119.3	5671.1	5087.6	5671.1	5087.6	5460.6	5118.1	5460.6
5119.3	5672.1	5134.6	5672.1	5134.6	5672.1	5134.6	5671.1	5134.6	5671.1
5138.6	5727.7	5136.3	5727.7	5136.3	5727.7	5136.3	5672.1	5136.3	5672.1
5160.0	5731.3	5138.6	5731.3	5138.6	5731.3	5138.6	5737.8	5138.6	5727.8
5163.0	5737.8	5156.8	5737.8	5150.2	5737.8	5156.8	5743.2	5150.2	5731.3
	5867.8								
	5743.2								
Lat. - 4.3°		Lat. - 15.1° - 15.4°		Lat. + 17.2°		Lat. + 7.8°		Lat. + 7.8°	

Greenwich No. 3450b.		Greenwich No. 3450b.		Greenwich No. 3460a.		Greenwich No. 3464b.		Greenwich No. 3464a.	
1894. March 28.		1894. March 30.		1894. March 30.		1894. March 30.		1894. March 30.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5117.0	5460.6	5085.6	5460.6	5117.0	5427.0	5111.9	5427.0	5085.6	5460.6
5118.2	5461.7	5086.5	5461.7	5119.3	5460.6	5117.0	5460.6	5086.5	5627.8
5119.3	5671.1	5117.0	5671.1	5134.6	5671.1	5134.6	5671.1	5087.2	5671.1
5134.6	5672.1	5134.6	5672.1	5136.3	5672.1	5136.3	5672.1	5087.6	5672.1
5136.3	5737.8	5136.3	5737.8	5138.6	5731.3	5138.6	5737.8	5117.0	5737.8
5138.6	5743.2	5138.6	5743.2	5156.8	5737.8	5150.2	5743.2	5119.3	5743.2
Lat. + 5.2°		Lat. + 4.9°		Lat. + 9.9.		Lat. + 22.2		Lat. + 20.8°	
Greenwich No. 3464a.		Greenwich No. 3464b.		Greenwich No. 3464a.		Greenwich No. 3460a.		Greenwich No. 3464a.	
1894. March 31.		1894. April 3.		1894. April 3.		1894. April 3.		1894. April 4.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
	5427.0	5062.2	5427.0	5062.2	5671.1	5062.2	5427.0	5062.2	5427.0
	5671.1	5119.3	5671.1	5092.5	5672.1	5092.5	5671.1	5111.9	5460.6
	5672.1	5138.6	5672.1	5112.0	5727.8	5119.3	5672.1	5117.0	5671.1
	5727.8	5144.0	5727.8	5134.6	5731.3	5138.6	5727.8	5134.6	5672.1
	5731.3	5160.0	5731.3	5138.6	5737.8	5160.0	5731.3	5136.3	5737.8
	5737.8	5163.0	5737.8	5163.0	5867.8	5163.0	5737.8	5138.6	5743.2
			5867.8						
Lat. + 20.9°		Lat. + 22.0°		Lat. + 20.4°		Lat. + 9.0°		Lat. + 20.7°	
Greenwich No. 3460a.		Greenwich No. 3465a.		Greenwich No. 3464b.		Greenwich No. 3460a.		Greenwich No. 3464a.	
1894. April 4.		1894. April 4.		1894. April 4.		1894. April 5.		1894. April 5.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5117.0	5427.0		5427.0		5427.0	5117.0	5427.0	5111.9	5427.0
5119.3	5671.1		5460.6		5460.6	5119.3	5460.6	5117.0	5671.1
5134.6	5672.1		5461.7		5671.1	5134.6	5671.1	5134.6	5672.1
5136.3	5727.8		5737.8		5672.1	5136.3	5672.1	5136.3	5737.8
5138.6	5731.3		5743.2		5737.8	5138.6	5737.8	5138.6	5743.2
5156.8	5737.8		5873.2		5743.2	5163.0	5743.2	5150.2	5873.3
Lat. + 9.4°		Lat. + 14.7°		Lat. + 22.2°		Lat. + 9.7		Lat. + 20.5	

Greenwich No. 3465a.		Greenwich No. 3464b.		Greenwich No. 3471a.		Greenwich No. 3465a.		Greenwich No. 3471a.	
1894. April 5.		1894. April 5.		1894. April 7.		1894. April 7.		1894. April 9.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5134.6	5460.6		5427.0	5062.2	5460.8	5062.2	5671.1	5062.2	5427.0
5136.3	5461.7		5460.6	5117.0	5461.0	5113.0	5672.1	5117.0	5460.6
5138.6	5671.1		5671.1	5134.6	5671.1	5134.6	5727.8	5119.3	5671.1
5136.8	5672.1		5672.1	5143.9	5672.1	5138.6	5731.3	5134.6	5672.1
5160.2	5737.8		5737.8	5156.8	5727.8	5143.9	5737.8	5136.3	5737.8
5163.0	5743.2		5743.2	5160.3	5743.2	5163.0	5743.2	5138.6	5743.2
Lat. + 14.7		Lat. + 22.7		Lat. 15.2		Lat. + 14.9		Lat. - 16.0	
Greenwich No. 3478b.		Greenwich No. 3478a.		Greenwich No. 3478b.		Greenwich No. 3478.		Greenwich No. 3478a.	
1894. April 9.		1894. April 9.		1894. April 10.		1894. April 10.		1894. April 10.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5111.9	5460.6	5085.6	5460.6	5062.1	5671.1	5092.5	5671.1	5062.2	5671.1
5117.0	5671.1	5086.5	5671.1	5111.9	5672.1	5111.9	5672.1	5117.0	5672.1
5134.6	5672.1	5087.2	5672.1	5117.0	5727.8	5117.0	5727.8	5134.6	5727.8
5136.3	5727.8	5087.6	5737.8	5134.6	5731.3	5119.3	5731.3	5136.3	5731.3
5138.6	5731.3	5111.9	5865.6	5143.9	5737.8	5138.6	5737.8	5138.6	5737.8
5150.2	5737.8	5117.0	5867.7	5160.0	5743.2	5143.9	5867.8	5160.0	5743.2
Lat. + 16.4		Lat. + 16.0		Lat. - 17.3		Lat. - 17.1		Lat. + 16.6	
Greenwich No. 3471a.		Greenwich No. 3478.		Greenwich No. 3478a.		Greenwich No. 3478a.		Greenwich No. 3488b.	
1894. April 11.		1894. April 11.		1894. April 11.		1894. April 12.		1894. April 27.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5085.6	5220.2	5062.2	5460.6	5087.2	5671.1	5112.0	5627.8	5134.6	5220.0
5086.5	5427.0	5111.9	5671.1	5087.6	5672.1	5117.0	5671.1	5136.3	5427.0
5087.2	5460.6	5117.0	5672.1	5117.0	5727.8	5134.6	5672.1	5138.6	5671.1
5087.6	5461.7	5134.6	5703.8	5134.6	5731.3	5136.3	5727.8	5156.8	5672.1
5111.9	5671.1	5136.3	5737.8	5136.3	5737.8	5138.6	5731.3	5160.3	5736.8
5117.0	5672.1	5138.6	5743.2	5138.6	5743.2	5160.0	5737.8	5163.0	5873.3
Lat. 15.9		Lat. - 15.9		Lat. - 17.3		Lat. - 17.5		Lat. - 16.4	

Greenwich No. 3492a.		Greenwich No. 3496a.		Greenwich No. 3496a.		Greenwich No. 3496a.		Greenwich No. 3520b.	
1894. April 27.		1894. May 5.		1894. May 7.		1894. May 7.		1894. May 14.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5111·9	5427·0	5092·5	5627·8	5117·0	5427·0	5117·0	5427·0	5062·2	5427·0
5117·0	5460·6	5113·2	5628·8	5119·3	5671·1	5119·3	5671·1	5117·0	5671·1
5134·6	5671·1	5117·0	5671·1	5134·6	5672·1	5134·6	5672·1	5119·3	5672·1
5136·3	5672·1	5119·0	5727·8	5136·3	5727·8	5136·3	5727·8	5134·6	5727·8
5138·6	5736·8	5136·3	5731·3	5138·6	5731·3	5138·6	5731·3	5138·6	5731·3
5156·8	5743·2	5138·6	5867·8	5156·8	5737·8	5156·8	5737·8	5143·9	5867·8
Lat. + 12·1°		Lat. - 27·0°		Lat. - 27·5		Lat. - 26·1°		Lat. - 9·8°	
Greenwich No. 3520c.		Greenwich No. 3518.		Greenwich No. 3518.		Greenwich No. 3520b.		Greenwich No. 3533a.	
1894. May 14.		1894. May 18.		1894. May 18.		1894. May 18.		1894. May 24.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5062·2	5671·1	5063·4	5427·0	5087·2	5427·0	5085·6	5460·6	5062·2	5427·0
5117·0	5672·1	5117·0	5671·1	5087·6	5461·6	5086·5	5628·8	5111·9	5671·1
5134·6	5727·8	5134·6	5672·1	5134·6	5671·1	5087·2	5671·1	5117·0	5672·1
5138·6	5731·3	5136·3	5727·8	5136·3	5672·1	5087·6	5672·1	5134·6	5727·8
5143·9	5737·8	5138·6	5731·3	5138·6	5737·8	5111·9	5737·8	5142·0	5731·3
5163·0	5743·2	5156·8	5737·8	5150·2	5743·2	5117·0	5743·2	5160·0	5867·8
Lat. - 12·3°		Lat. - 15·5°		Lat. - 14·3°		Lat. - 10·6°		Lat. + 12·4°	
Greenwich No. 3530b.		Greenwich No. 3530c.		Greenwich No. 3528a.		Greenwich No. 3530b.		Greenwich No. 3530c.	
1894. May 24.		1894. May 24.		1894. May 25.		1894. May 25.		1894. May 25.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5095·5	5219·5	5062·2	5671·1	5119·9	5427·0	5062·2	5461·6	5111·9	5220·0
5117·0	5427·0	5117·0	5672·1	5117·0	5460·6	5085·6	5671·1	5117·0	5671·1
5134·6	5727·8	5134·6	5727·8	5134·6	5671·1	5117·0	5672·1	5134·6	5672·1
5138·6	5731·3	5136·3	5737·8	5136·3	5672·1	5134·6	5727·8	5136·3	5703·8
5144·0	5736·0	5138·6	5743·2	5138·6	5736·8	5136·3	5731·3	5138·6	5736·8
5163·2	5743·2	5163·2	5866·7	5156·8	5743·2	5138·6	5736·8	5150·0	5743·2
Lat. - 20·9°		Lat. - 19·4°		Lat. - 3·1		Lat. - 20·7		Lat. - 19·5°	

Greenwich No. 3533a.		Greenwich No. 3565a.		Greenwich No. 3575a.		Greenwich No. 3570a.		Greenwich No. 3565a.	
1894. May 26.		1894. June 14.		1894. June 14.		1894. June 15.		1894. June 15.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5112.0	5627.8	5045.5	5427.0	5062.2	5671.1	5085.6	5671.1	5085.6	5427.0
5117.0	5671.1	5063.5	5671.1	5113.2	5672.1	5086.5	5672.1	5117.0	5671.1
5134.6	5672.1	5112.0	5727.8	5117.0	5727.8	5087.2	5727.8	5134.6	5672.1
5136.3	5727.8	5117.0	5731.3	5134.6	5731.3	5087.6	5731.3	5136.3	5737.8
5138.6	5731.3	5134.6	5743.2	5136.3	5743.2	5117.0	5737.8	5138.6	5743.2
5142.0	5867.8	5138.6	5867.8	5138.6	5867.8	5156.8	5743.2	5156.8	5867.8
Lat. + 11.8°		Lat. - 8.3°		Lat. - 15.1°		Lat. - 4.0°		Lat. - 8.3°	
Greenwich No. 3575a.		Greenwich No. 3570a.		Greenwich No. 3565a.		Greenwich No. 3575a.		Greenwich No. 3575a.	
1894. June 15.		1894. June 16.		1894. June 16.		1894. June 16.		1894. June 21.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5117.0	5671.1	5085.6	5427.0	5085.6	5427.0	5062.2	5427.0	5062.2	5627.8
5134.6	5672.1	5086.5	5671.1	5111.9	5671.1	5117.0	5671.1	5134.6	5628.8
5136.3	5727.8	5087.2	5672.1	5117.0	5672.1	5134.6	5672.1	5136.3	5727.8
5138.6	5731.3	5087.6	5727.8	5134.6	5737.8	5136.3	5727.8	5138.6	5731.3
5156.8	5737.8	5117.0	5731.3	5136.3	5743.2	5138.6	5731.3	5157.0	5742.0
5160.3	5743.2	5156.8	5737.8	5138.6	5687.8	5156.8	5737.8	5160.0	5867.8
Lat. - 15.0°		Lat. - 4.4°		Lat. - 8.5°		Lat. - 11.9°		Lat. - 14.4°	
Greenwich No. 3581a.		Greenwich No. 3575a.		Greenwich No. 3581a.		Greenwich No. 3575a.		Greenwich No. 3581a.	
1894. June 21.		1894. June 22.		1894. June 22.		1894. June 25.		1894. June 25.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5062.2	5671.1	5111.9	5427.0	5111.9	5427.0	5111.9	5427.0	5111.9	5220.0
5112.0	5727.8	5117.0	5627.8	5117.0	5627.8	5117.0	5671.1	5134.6	5427.0
5117.0	5731.3	5134.6	5671.1	5134.6	5671.1	5134.6	5672.1	5136.3	5671.1
5138.6	5737.8	5136.3	5672.1	5136.3	5672.1	5136.3	5727.8	5138.6	5672.1
5160.0	5743.2	5138.6	5727.8	5138.6	5737.8	5138.6	5731.3	5156.8	5737.8
5163.0	5867.8	5156.8	5731.3	5160.3	5743.2	5156.8	5737.8	5160.3	5743.2
Lat. + 12.5°		Lat. - 14.9°		Lat. - 12.7°		Lat. - 12.9°		Lat. - 12.7°	

Greenwich No. 3581a.		Greenwich No. 3581a.		Greenwich No. 3581a.		Greenwich No. 3590a.		Greenwich No. 3581a.	
1894. June 27.		1894. June 28.		1894. June 29.		1894. June 29.		1894. June 30.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5085.6	5671.1	5062.2	5220.0	5111.9	5220.0	5111.9	5427.0	5062.2	5427.0
5086.5	5672.1	5095.5	5427.0	5134.6	5427.0	5117.0	5671.0	5085.7	5460.6
5117.0	5727.8	5117.0	5490.5	5136.3	5671.1	5134.6	5672.1	5117.0	5671.1
5134.6	5731.3	5134.6	5491.0	5138.6	5672.1	5136.3	5727.8	5134.6	5672.1
5136.3	5737.8	5138.6	5671.1	5156.8	5737.8	5138.6	5731.3	5138.6	5727.8
5138.6	5743.2	5160.3	5672.1	5160.3	5743.2	5156.8	5737.8	5160.0	5731.3
Lat. + 12.8°.		Lat. + 12.9°		Lat. + 12.9°		Lat. - 12.3°		Lat. + 12.8°	
Greenwich No. 3598a.		Greenwich No. 3604a.		Greenwich No. 3598a.		Greenwich No. 3604c.		Greenwich No. 3599a.	
1894. July 4.		1894. July 4.		1894. July 5.		1894. July 6.		1894. July 6.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5062.2	5220.0	5092.5	5427.0	5062.2	5427.0	5062.2	5427.0	5085.6	5220.0
5117.0	5427.0	5134.6	5671.1	5112.0	5627.8	5117.0	5460.6	5086.5	5427.0
5134.6	5460.6	5136.3	5672.1	5119.3	5672.1	5134.6	5671.1	5111.9	5460.6
5136.3	5671.1	5138.6	5727.8	5138.6	5727.8	5136.3	5672.1	5117.0	5671.1
5138.6	5672.1	5156.8	5731.3	5156.8	5731.3	5138.6	5737.8	5156.8	5672.1
5156.8	5737.8	5160.3	5737.8	5160.3	5867.8	5156.8	5743.2	5160.3	5737.8
Lat. + 7.2°		Lat. - 18.6°		Lat. + 7.5°		Lat. - 19.0°		Lat. + 12.6°	
Greenwich No. 3604a.		Greenwich No. 3604c.		Greenwich No. 3613a.		Greenwich No. 3610b.		Greenwich No. 3640a.	
1894. July 6.		1894. July 11.		1894. July 11.		1894. July 11.		1894. July 25.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5111.9	5460.6	5085.6	5427.0	5085.6	5427.0	5062.2	5671.1	5062.2	5427.0
5117.0	5461.6	5086.5	5671.1	5086.5	5671.1	5117.0	5672.1	5119.3	5671.1
5119.3	5671.1	5087.2	5672.1	5111.9	5672.1	5134.6	5700.3	5134.6	5727.8
5134.6	5672.1	5087.6	5727.8	5117.0	5727.8	5136.3	5703.8	5136.3	5731.3
5136.3	5737.8	5111.9	5731.3	5156.8	5731.3	5138.6	5727.8	5138.6	5743.2
5138.6	5743.2	5117.0	5737.8	5160.3	5737.8	5165.8	5731.3	5160.3	5867.8
Lat. - 18.9°		Lat. - 19.2°		Lat. + 10.0°		Lat. + 7.8°		Lat. - 9.0°	

Greenwich No. 3642a.		Greenwich No. 3640a.		Greenwich No. 3642a.		Greenwich No. 3645a.		Greenwich No. 3645a.	
1894. July 25.		1894. July 27.		1894. July 27.		1894. July 27.		1894. July 31.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5112.0	5469.5	5062.2	5671.1	5062.2	5260.6	5094.5	5427.0	5112.0	5427.0
5117.0	5627.8	5092.3	5672.1	5119.3	5460.6	5112.0	5671.1	5134.6	5671.1
5134.6	5727.8	5112.0	5727.8	5134.6	5727.8	5134.6	5672.1	5136.3	5672.1
5136.3	5731.3	5134.6	5731.3	5136.3	5731.3	5136.3	5731.3	5138.6	5727.8
5138.6	5737.8	5136.3	5743.2	5138.6	5737.8	5138.6	5737.8	5143.0	5731.3
5156.8	5867.8	5138.6	5867.8	5156.8	5743.2	5160.3	5867.8	5156.8	5737.8
Lat. + 18.1°		Lat. - 8.5°		Lat. + 18.4°		Lat. - 21.7°		Lat. - 21.4°	
Greenwich No. 3642a.		Greenwich No. 3652b.		Greenwich No. 3668.		Greenwich No. 3668.		Greenwich No. 3668.	
1894. July 31.		1894. August 3.		1894. August 11.		1894. August 14.		1894. August 15.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5045.5	5427.0	5063.3	5219.9	5085.6	5671.1	5062.2	5427.0	5112.0	5427.0
5117.0	5671.1	5112.0	5671.1	5112.0	5672.1	5112.0	5627.8	5134.6	5671.1
5134.6	5672.1	5117.0	5672.1	5134.7	5727.8	5134.6	5671.1	5136.3	5672.1
5136.3	5727.8	5134.6	5727.8	5136.3	5731.3	5136.3	5672.1	5138.6	5727.8
5138.6	5731.3	5136.3	5731.3	5138.6	5737.8	5138.6	5727.8	5160.0	5731.3
5156.8	5743.2	5138.6	5737.8	5160.4	5743.2	5174.0	5743.2	5163.2	5737.8
Lat. + 18.7°		Lat. - 10.4°		Lat. + 6.8°		Lat. + 7.3°		Lat. + 6.3°	
Greenwich No. 3668.		Greenwich No. 3668.		Greenwich No. 3674a.		Greenwich No. 3668.		Greenwich No. 3668.	
1894. August 17.		1894. August 20.		1894. August 20.		1894. August 20.		1894. August 22.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5054.4	5671.1	5085.6	5671.1	5085.6	5461.6	5117.0	5427.0	5085.6	5427.0
5112.0	5672.1	5086.5	5672.1	5086.5	5671.1	5134.6	5671.1	5086.5	5671.1
5134.6	5727.8	5134.6	5727.8	5111.9	5672.1	5136.3	5672.1	5134.6	5672.1
5138.6	5731.3	5136.3	5731.3	5117.0	5727.8	5138.6	5727.8	5136.3	5727.8
5156.8	5737.8	5138.6	5737.8	5119.3	5731.3	5156.8	5731.3	5138.6	5731.3
5160.0	5743.2	5156.8	5743.2	5156.8	5737.8	5160.3	5737.8	5156.8	5737.8
Lat. + 9.6°		Lat. + 6.4°		Lat. + 5.8°		Lat. + 8.4°		Lat. + 9.1°	

Greenwich No. 3689a.		Greenwich No. 3689a.		Greenwich No. 3687a.		Greenwich No. 3692.		Greenwich No. 3689a.	
1894. August 29.		1894. August 30.		1894. August 30.		1894. August 31.		1894. August 31.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5111.9	5427.0	5111.9	5427.0	5085.6	5461.6	5062.1	5427.0	5111.9	5427.0
5117.0	5671.1	5117.0	5671.1	5086.5	5671.1	5111.9	5671.1	5134.6	5461.6
5134.6	5672.1	5134.6	5672.1	5117.0	5672.1	5117.0	5672.1	5136.3	5671.1
5136.3	5727.8	5136.3	5727.8	5134.6	5727.8	5134.6	5727.8	5138.6	5672.1
5138.6	5731.3	5138.6	5731.3	5136.3	5731.3	5136.3	5731.3	5156.8	5727.8
5156.8	5737.8	5156.8	5737.8	5138.6	5737.8	5138.6	5737.8	5160.3	5737.8
Lat. + 9.5°		Lat. + 9.6°		Lat. - 7.0°		Lat. + 13.6°		Lat. + 9.9°	
Greenwich No. 3687a.		Greenwich No. 3692a.		Greenwich No. 3689a.		Greenwich No. 3692b.		Greenwich No. 3692b.	
1894. August 31.		1894. September 1.		1894. September 1.		1894. September 1.		1894. September 4.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5134.6	5220.0	5117.0	5427.0	5117.0	5427.0	5085.6	5220.0	5117.0	5427.0
5136.3	5427.0	5119.3	5461.6	5134.6	5627.8	5086.5	5427.0	5119.3	5461.6
5138.6	5461.6	5134.6	5671.1	5136.3	5671.1	5087.2	5627.8	5134.6	5671.1
5156.8	5671.1	5136.3	5672.1	5138.6	5672.1	5087.6	5671.1	5136.3	5672.1
5160.3	5672.1	5138.6	5727.8	5156.8	5727.8	5117.0	5672.1	5138.6	5727.8
5163.0	5737.8	5156.8	5737.8	5160.3	5737.8	5119.3	5737.8	5156.8	5737.8
Lat. - 6.5°		Lat. + 13.4°		Lat. + 9.7°		Lat. + 14.1°		Lat. + 14.3°	
Greenwich No. 3697.		Greenwich No. 3692b.		Greenwich No. 3702a.		Greenwich No. 3704a.		Greenwich No. 3702a.	
1894. September 4.		1894. September 5.		1894. September 8.		1894. September 8.		1894. September 10.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5085.6	5627.8	5111.9	5427.0	5111.9	5427.0	5119.3	5220.0	5134.6	5427.0
5086.5	5671.1	5117.0	5461.6	5117.0	5627.8	5134.6	5427.0	5136.3	5627.8
5087.2	5672.1	5134.6	5671.1	5134.6	5671.1	5136.3	5461.6	5138.6	5671.1
5087.6	5727.8	5136.3	5672.1	5136.3	5672.1	5138.6	5671.1	5156.8	5672.1
5156.8	5731.3	5138.6	5727.8	5138.6	5727.8	5156.8	5672.1	5160.3	5737.8
5160.3	5737.8	5156.8	5737.8	5156.8	5737.8	5160.3	5737.8	5163.2	5743.2
Lat. - 14.1°		Lat. + 14.4°		Lat. + 15.8°		Lat. + 9.5°		Lat. + 16.0°	

Greenwich No. 3704a.		Greenwich No. 3701a.		Greenwich No. 3702a.		Greenwich No. 3704a.		Greenwich No. 3701a.	
1894. September 10.		1894. September 10.		1894. September 11.		1894. September 11.		1894. September 11.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5117.0	5220.0	5111.9	5461.6	5134.6	5220.0	5111.9	5220.0	5061.2	5427.0
5134.6	5427.0	5117.0	5627.8	5136.3	5427.0	5117.0	5427.0	5117.0	5461.6
5136.3	5461.6	5134.6	5671.1	5138.6	5461.6	5119.3	5461.6	5134.6	5627.8
5138.6	5627.8	5136.3	5672.1	5150.2	5671.1	5134.6	5492.0	5136.3	5671.1
5156.8	5671.1	5138.6	5731.3	5156.8	5672.1	5136.3	5671.1	5138.6	5672.1
5160.3	5672.1	5156.8	5737.8	5160.3	5737.8	5138.6	5672.1	5156.8	5737.8
Lat. + 9.2'		Lat. - 14.4'		Lat. + 16.0'		Lat. + 8.9'		Lat. - 14.6'	
Greenwich No. 3717a.		Greenwich No. 3720a.		Greenwich No. 3725b.		Greenwich No. 3725b.		Greenwich No. 3738a.	
1894. September 19.		1894. September 19.		1894. September 28.		1894. October 3.		1894. October 12.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5117.0	5427.0	5085.6	5219.9	5062.2	5671.1		5727.8	4933.5	5219.2
5119.3	5461.6	5086.5	5427.0	5063.4	5672.1		5731.3	5062.2	5280.5
5134.6	5671.1	5087.2	5627.8	5111.9	5727.8		5743.2	5063.3	5671.1
5136.3	5672.1	5087.6	5671.1	5134.6	5731.3			5113.4	5672.1
5138.6	5731.3	5156.8	5672.1	5138.6	5743.2			5113.7	5703.8
5156.8	5737.2	5160.3	5737.2	5160.3	5867.8			5138.6	5743.2
					5260.6			4939.8	5867.8
					5441.6				
Lat. + 0.9°		Lat. - 7.9°		Lat. - 10.4		Lat. + 10.5°		Lat. + 9.7°	
Greenwich No. 3738a.		Greenwich No. 3745b.		Greenwich No. 3756a.		Greenwich No. 3770a.		Greenwich No. 3770a.	
1894. October 13.		1894. October 16.		1894. October 25.		1894. October 29.		1894. November 1.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
4910.5	5219.9	5219.9	4932.2	4893.1	5219.9	(6) 5117.0	(3) 5426.5	5062.2	5426.5
4978.8	5671.1	5441.5	5062.2	5087.2	5627.8	(3) 5134.7	(1) 5671.1	5111.9	5671.1
5062.2	5672.1	5727.8	5063.3	5111.9	5727.8	(2) 5136.3	(2) 5672.1	5117.0	5672.1
5091.0	5703.8	5731.3	5111.9	5134.7	5731.3	(1) 5138.5		5138.5	5727.8
5117.0	5727.8	5743.2	5117.0	5138.5	5736.0	(4) 5156.8		5156.8	5731.4
5138.6	5743.2	5867.8	5138.6	5156.8	5867.8	(5) 5160.4		5160.4	5737.8
				5117.0	5671.1			5137.3	5703.8
				5119.3	5672.1			5134.7	5867.8
Lat. + 9.8°		Lat. - 17.7		Lat. - 14.6		Lat. - 13.7		Lat. - 13.8°	

Greenwich No. 3770a.		Greenwich No. 3777.		Greenwich No. 3786a.		Greenwich No. 3777.		Greenwich No. 3789b.	
1894. November 6.		1894. November 6.		1894. November 6.		1894. November 8.		1894. November 8.	
F — b	b — D	F — b	b — D	F — b	b — D	F — b	b — D	F — b	b — D
5062.2	5671.1	5062.2	5426.5	5062.2	5426.5	5062.2	5671.1	5062.2	5219.9
5117.0	5672.1	5111.9	5671.1	5085.7	5671.1	5117.0	5672.1	5117.0	5426.5
5134.7	5727.8	5134.6	5672.1	5119.3	5672.1	5136.3	5727.8	5134.7	5671.1
5138.5	5731.4	5136.3	5703.8	5134.6	5727.8	5138.5	5731.4	5138.5	5672.1
5156.8	5743.2	5138.5	5727.8	5138.5	5731.4	5156.8	5737.2	5156.8	5727.8
5160.4	5867.8	5156.8	5731.4	5156.8	5743.2	5160.4	5743.2	5160.4	5731.4
					5460.5 5461.6				5220.5 5727.8
Lat. + 14°0'		Lat. + 7°1'		Lat. - 5°0'		Lat. + 7°1'		Lat. - 11°3'	
Greenwich No. 3789a.		Greenwich No. 3786a.		Greenwich No. 3786a.		Greenwich No. 3789a.		Greenwich No. 3789.	
1894. November 8.		1894. November 8.		1894. November 8.		1894. November 10.		1894. November 10.	
F — b	b — D	F — b	b — D	F — b	b — D	F — b	b — D	F — b	b — D
5062.2	5671.1	5062.2	5671.1	5062.2	5426.5	5062.2	5426.5	5062.2	5426.5
5117.0	5672.1	5063.3	5672.1	5117.0	5671.1	5111.9	5671.1	5087.2	5671.1
5136.3	5727.8	5134.7	5727.8	5134.7	5672.1	5134.7	5672.1	5087.6	5672.1
5138.5	5731.4	5138.5	5731.4	5136.3	5727.8	5136.3	5727.8	5111.9	5727.8
5156.8	5737.2	5156.8	5737.2	5138.5	5731.4	5138.5	5731.4	5136.3	5731.4
5160.4	5737.8	5160.4	5743.2	5156.8	5743.2	5156.8	5743.2	5156.8	5735.7
5063.3	5220.5	5087.2	5219.9						
5089.1	5426.5	5161.3	5426.5	Measured as one spot at Greenwich.					
Lat. - 12°6'		Lat. - 5°0'		Lat. - 5°0'		Lat. - 12°6'		Lat. - 10°5'	
Greenwich No. 3786c.		Greenwich No. 3786b.		Greenwich No. 3793a.		Greenwich No. 3793b.		Greenwich No. 3795a.	
1894. November 10.		1894. November 10.		1894. November 13.		1894. November 13.		1894. November 13.	
F — b	b — D	F — b	b — D	F — b	b — D	F — b	b — D	F — b	b — D
5062.2	5219.9	5111.9	5460.6	5062.2	5671.1	5045.5	5426.5	5062.2	5671.1
5134.7	5671.1	5134.7	5461.7	5111.9	5672.1	5134.7	5671.1	5111.9	5672.1
5136.3	5672.1	5136.3	5671.1	5136.3	5727.8	5136.3	5672.1	5134.7	5700.4
5138.5	5727.8	5138.5	5672.1	5138.5	5731.4	5138.5	5727.8	5136.3	5727.8
5156.8	5731.4	5156.8	5703.8	5156.8	5737.2	5156.8	5731.4	5138.5	5731.4
5161.2	5743.2	5160.4	5727.8	5160.4	5743.2	5160.4	5737.2	5156.8	5737.2
Lat. - 4°6'		Lat. - 5°7'		Lat. - 22°2'		Lat. - 21°5'		Lat. + 11°6'	

Greenwich No. 3790a.		Greenwich No. 3790a.		Greenwich No. 3790a.		Greenwich No. 3807a.		Greenwich No. 3807.	
1894. November 16.		1894. November 17.		1894. November 19.		1894. November 24.		1894. November 24.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5062.2	5671.1	5062.2	5671.1	5062.2	5627.8	5045.5	5426.5	5117.0	5671.1
5134.7	5672.1	5111.9	5672.1	5117.0	5671.1	5062.2	5627.8	5134.7	5672.1
5138.5	5727.8	5134.7	5727.8	5134.7	5672.1	5117.0	5703.8	5136.3	5727.8
5156.8	5731.4	5136.3	5731.4	5136.3	5700.4	5134.7	5727.8	5138.5	5731.4
5160.4	5737.2	5156.8	5737.2	5156.8	5727.8	5138.5	5731.4	5156.8	5737.2
5163.1	5743.2	5160.4	5743.2	5160.4	5731.4	5156.8	5737.2	5160.4	5737.8
Lat. + 1.9		Lat. + 1.7°		Lat. - 2.3		Lat. - 18.6°		Lat. - 20.9°	
Greenwich No. 3816a.		Greenwich No. 3816b.		Greenwich No. 3816a.		Greenwich No. 3816a.		Greenwich No. 3827a.	
1894. November 30.		1894. November 30.		1894. December 3.		1894. December 4.		1894. December 15.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5045.5	5671.1	5062.2	5426.5	5117.0	5426.5	5117.0	5671.1	5045.5	5426.5
5117.0	5672.1	5111.9	5671.1	5119.3	5671.1	5134.7	5672.1	5062.2	5672.1
5134.7	5703.8	5117.0	5672.1	5134.7	5672.1	5136.3	5700.4	5138.5	5727.8
5138.5	5727.8	5134.7	5703.8	5138.5	5703.8	5138.5	5727.8	5160.4	5731.4
5156.8	5737.2	5138.5	5737.2	5160.4	5727.8	5156.8	5737.2	5161.2	5737.2
5163.1	5743.2	5156.8	5743.2		5737.2	5160.4	5743.2	5163.1	5743.2
Lat. - 18.2°		Lat. - 17.8°		Lat. - 18.6		Lat. - 18.6°		Lat. - 17.7	
Greenwich No. 3829a.		Greenwich No. 3830a.		Greenwich No. 3839.		Greenwich No. 3838.		Greenwich No. 3836a.	
1894. December 20.		1894. December 22.		1894. December 27.		1894. December 27.		1894. December 27.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5117.6	5671.1	(4) 5111.9	(6) 5460.6	(6) 5085.6	(3) 5671.1	(5) 5045.5	(5) 5460.6	(6) 5085.6	(3) 5671.1
5118.1	5672.1	(5) 5118.1	(1) 5671.1	(4) 5111.9	(4) 5672.1	(6) 5092.6	(3) 5671.1	(4) 5111.9	(4) 5672.1
5134.7	5727.8	(3) 5138.5	(2) 5672.1	(1) 5134.7	(6) 5703.8	(2) 5111.9	(4) 5672.1	(1) 5134.7	(6) 5703.8
5138.5	5731.4	(2) 5160.4	(5) 5707.2	(2) 5156.8	(5) 5707.2	(1) 5138.5	(1) 5700.4	(2) 5156.8	(5) 5707.2
5160.4	5737.2	(6) 5161.2	(3) 5727.8	(5) 5161.2	(1) 5727.8	(4) 5156.8	(2) 5703.8	(5) 5161.2	(1) 5727.8
5163.1	5743.2	(1) 5163.1	(4) 5731.4	(3) 5163.1	(2) 5731.4	(3) 5161.2	(6) 5727.8	(3) 5163.1	(2) 5731.4
Lat. - 13.9		Lat. - 17.5		Lat. + 15.5		Lat. + 14.1		Lat. - 15.1	

Greenwich No. 3835a.		Greenwich No. 3833c.		Greenwich No. 3833b.		Greenwich No. 3842a.		Greenwich No. 3836a.	
1894. December 27.		1894. December 27.		1894. December 27.		1894. December 29.		1894. December 29.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
(5) 5045·5	(4) 5460·6	(4) 5045·5	(2) 5426·5	(4) 5045·5	(2) 5426·5	(6) 5132·9	(6) 5460·6	(5) 5089·4	(6) 5426·5
(6) 5092·6	(3) 5671·1	(6) 5062·2	(5) 5671·1	(6) 5062·2	(5) 5671·1	(2) 5134·7	(1) 5671·1	(2) 5118·1	(2) 5671·1
(2) 5111·9	(5) 5672·1	(3) 5117·0	(6) 5672·1	(3) 5117·0	(6) 5672·1	(2) 5136·3	(2) 5672·1	(3) 5134·7	(3) 5672·1
(1) 5138·5	(1) 5700·4	(2) 5138·5	(4) 5700·4	(2) 5138·5	(4) 5700·4	(3) 5138·5	(3) 5689·7	(4) 5136·3	(4) 5703·8
(4) 5156·8	(2) 5703·8	(5) 5156·8	(3) 5707·2	(5) 5156·8	(3) 5707·2	(5) 5156·8	(4) 5727·8	(1) 5160·4	(1) 5731·4
(3) 5161·2	(6) 5727·8	(1) 5163·1	(1) 5727·8	(1) 5163·1	(1) 5727·8	(1) 5163·1	(5) 5731·4	(6) 5161·2	(5) 5743·2
Lat. + 8·4°		Lat. + 8·5°		Lat. + 7·3°		Lat. + 16·7°		Lat. - 15·2°	
Greenwich No. 3833c.		Greenwich No. 3842a.		Greenwich No. 3847a.		Greenwich No. 3846a.		Greenwich No. 3842a.	
1894. December 29.		1895. January 1.		1895. January 1.		1895. January 1.		1895. January 2.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
(3) 5045·5	(3) 5426·5	(5) 5092·6	(1) 5671·1	(4) 5062·2	(6) 5426·5	(6) 5045·5	(6) 5426·5	(6) 5092·5	(6) 5627·8
(6) 5062·2	(5) 5671·1	(2) 5132·9	(2) 5672·1	(5) 5134·7	(5) 5460·6	(2) 5062·2	(5) 5627·8	(5) 5117·0	(1) 5671·1
(1) 5117·0	(6) 5672·1	(1) 5134·7	(5) 5689·7	(1) 5138·5	(3) 5671·1	(4) 5117·0	(1) 5671·1	(2) 5132·9	(2) 5672·1
(2) 5118·1	(1) 5689·7	(3) 5136·3	(6) 5703·8	(6) 5156·8	(4) 5672·1	(3) 5134·7	(2) 5672·1	(1) 5134·8	(5) 5703·8
(5) 5161·2	(2) 5700·4	(6) 5138·5	(3) 5727·8	(2) 5161·2	(1) 5727·8	(5) 5138·5	(3) 5700·4	(4) 5138·5	(4) 5727·8
(4) 5163·1	(4) 5743·2	(4) 5156·8	(4) 5731·4	(3) 5163·1	(2) 5731·4	(1) 5156·8	(4) 5703·8	(3) 5156·8	(4) 5731·4
Lat. + 8·8°		Lat. + 17·1		Lat. - 17·6°		Lat. + 12·3°		Lat. + 17·2°	
Greenwich No. 3847a.		Greenwich No. 3846a.		Greenwich No. 3842a.		Greenwich No. 3847a.		Greenwich No. 3846a.	
1895. January 2.		1895. January 2.		1895. January 3.		1895. January 3.		1895. January 3.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
(4) 5062·2	(3) 5460·6	(6) 5045·5	(1) 5671·1	(4) 5092·5	(1) 5671·1	(4) 5062·2	(6) 5426·5	(5) 5045·5	(1) 5671·1
(5) 5111·9	(4) 5461·8	(3) 5117·0	(2) 5672·1	(6) 5111·9	(2) 5672·1	(6) 5085·7	(4) 5671·1	(6) 5111·9	(2) 5672·1
(1) 5134·8	(5) 5671·1	(1) 5134·7	(4) 5700·4	(5) 5117·0	(5) 5703·8	(3) 5111·9	(5) 5672·1	(1) 5134·7	(4) 5689·7
(2) 5138·5	(6) 5672·1	(2) 5136·3	(3) 5703·8	(2) 5132·9	(3) 5727·8	(2) 5134·7	(3) 5689·7	(2) 5136·3	(3) 5703·8
(3) 5156·8	(1) 5727·8	(5) 5138·5	(5) 5727·8	(1) 5134·8	(4) 5731·3	(1) 5138·5	(1) 5727·8	(4) 5138·5	(1) 5727·8
(6) 5161·2	(2) 5731·4	(4) 5156·8	(6) 5731·4	(3) 5138·5	(6) 5767·2	(5) 5156·8	(2) 5731·4	(3) 5156·8	(2) 5731·4
Lat. - 17·2°		Lat. + 13·0°		Lat. + 17·2°		Lat. - 17·4°		Lat. + 13·0°	

Greenwich No. 3847a.		Greenwich No. 3846b.		Greenwich No. 3867b.		Greenwich No. 3867c.		Greenwich No. 3872b.	
1895. January 8.		1895. January 8.		1895. January 23.		1895. January 23.		1895. January 23.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5062.2	5671.1		5671.1	5111.9	5426.5	5111.9	5426.5	5085.6	5219.9
5085.7	5672.1		5672.1	5117.0	5671.1	5117.0	5671.1	5086.5	5671.1
5134.7	5689.7		5703.8	5134.7	5672.1	5134.7	5672.1	5117.0	5672.1
5136.3	5727.8		5727.8	5138.5	5727.8	5136.3	5727.8	5134.7	5727.8
5138.5	5731.4		5731.4	5144.0	5731.4	5138.5	5731.4	5138.5	5731.3
5156.8	5737.2		5737.2	5156.8	5737.2	5156.8	5737.2	5156.8	5743.2
Lat. - 17°3'		Lat. + 9°0'		Lat. + 13°3'		Lat. + 11°6'		Lat. - 10°8'	
Greenwich No. 3867b.		Greenwich No. 3872b.		Greenwich No. 3867b.		Greenwich No. 3867c.		Greenwich No. 3892a.	
1895. January 24.		1895. January 24.		1895. January 26.		1895. January 26.		1895. February 7.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5063.3	5627.8	5117.1	5671.1	5117.0	5671.1	5045.5	5426.5	5117.0	5671.1
5095.3	5671.1	5134.7	5672.1	5134.6	5672.1	5087.2	5671.1	5118.1	5672.1
5114.6	5672.1	5136.3	5727.8	5138.5	5727.8	5117.0	5672.1	5138.5	5727.8
5138.5	5727.8	5138.5	5731.4	5150.2	5731.4	5138.5	5727.8	5150.2	5731.4
5156.8	5731.4	5156.8	5737.2	5156.8	5737.8	5156.8	5731.4	5156.8	5737.2
5160.4	5737.2	5160.4	5743.2	5160.4	5743.2	5160.4	5737.2	5160.4	5743.2
Lat. + 13°1'		Lat. - 11°1'		Lat. + 12°5'		Lat. + 11°1'		Lat. + 14°4'	
Greenwich No. 3884a.		Greenwich No. 3892a.		Greenwich No. 3892a.		Greenwich No. 3898a.		Greenwich No. 3898a.	
1895. February 7.		1895. February 8.		1895. February 12.		1895. February 12.		1895. February 16.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5062.2	5671.1	5117.0	5426.5	5045.5	5426.5	4902.3	5671.1	5062.2	5607.8
5117.0	5672.1	5134.6	5671.1	5062.2	5671.1	5062.2	5672.1	5085.7	5671.1
5118.1	5727.8	5136.3	5672.1	5117.0	5672.1	5117.0	5703.8	5117.0	5672.1
5134.6	5731.4	5138.5	5727.8	5134.6	5727.8	5138.5	5727.8	5136.3	5727.8
5138.5	5737.2	5150.2	5731.4	5138.5	5731.4	5150.2	5731.4	5138.5	5731.4
5160.4	5737.8	5156.8	5737.2	5160.4	5737.8	5160.3	5737.8	5150.2	5737.8
Lat. + 15°0'		Lat. + 14°7'		Lat. + 14°4'		Lat. 9°3'		Lat. - 10°2'	

Greenwich No. 3903a.		Greenwich No. 3901a.		Greenwich No. 3916a.		Greenwich No. 3916a.		Greenwich No. 3923a.	
1895. February 16.		1895. February 16.		1895. February 26.		1895. February 27.		1895. February 27.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5085.7	5671.1	5111.9	5426.5	5085.7	5703.8	5111.9	5426.5	5117.0	5426.5
5134.6	5672.1	5117.0	5727.8	5117.0	5727.8	5134.6	5460.6	5119.0	5671.1
5136.3	5703.8	5136.3	5731.4	5136.3	5731.4	5136.3	5671.1	5134.6	5672.1
5138.5	5727.8	5138.5	5735.7	5138.5	5735.8	5138.5	5672.1	5136.3	5727.8
5149.0	5731.4	5160.4	5737.8	5150.2	5737.8	5156.8	5727.8	5138.5	5737.2
5160.4	5737.8	5161.3	5739.7	5160.4	5743.2	5160.4	5737.2	5156.8	5743.2
Lat. - 9.4		Lat. - 18.7°		Lat. - 13.7		Lat. + 13.0°		Lat. - 6.4°	
Greenwich No. 3911b.		Greenwich No. 3911c.		Greenwich No. 3916a.		Greenwich No. 3923a.		Greenwich No. 3923a.	
1895. February 28.		1895. February 28.		1895. February 28.		1895. February 28.		1895. March 1.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5062.2	5490.2	5062.2	5627.8	5062.2	5671.1	5062.2	5426.5	5062.2	5671.1
5085.7	5671.1	5134.6	5628.8	5134.6	5672.1	5134.6	5671.1	5117.0	5672.1
5134.6	5672.1	5138.5	5671.1	5136.3	5727.8	5136.3	5672.1	5138.5	5727.8
5138.5	5727.8	5144.0	5672.1	5138.5	5731.4	5138.5	5727.8	5150.2	5731.4
5150.2	5731.4	5150.2	5727.8	5150.2	5737.8	5156.8	5731.4	5156.8	5737.8
5160.4	5737.8	5156.8	5737.8	5160.4	5743.2	5160.4	5737.8	5160.4	5743.2
Lat. - 13.0		Lat. + 12.3°		Lat. + 13.0°		Lat. - 5.8		Lat. - 5.8°	
Greenwich No. 3923a.		Greenwich No. 3916a.		Greenwich No. 3933a.		Greenwich No. 3933a.		Greenwich No. 3934c.	
1895. March 5.		1895. March 5.		1895. March 11.		1895. March 12.		1895. March 12.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5085.6	5426.5	5062.2	5460.6	5111.9	5671.1	5062.2	5460.8	5130.5	5426.5
5086.5	5671.1	5111.9	5671.1	5117.0	5672.1	5117.0	5671.1	5134.6	5671.1
5111.9	5672.1	5117.0	5672.1	5134.6	5727.8	5134.6	5672.1	5138.5	5672.1
5117.0	5727.8	5134.6	5727.8	5136.3	5731.3	5138.5	5703.8	5150.2	5727.8
5134.6	5731.3	5138.5	5731.3	5138.5	5737.8	5150.2	5727.8	5156.8	5731.4
5138.5	5737.8	5156.8	5737.8	5156.8	5743.2	5160.4	5731.4	5160.4	5737.2
Lat. - 5.7°		Lat. + 12.7°		Lat. + 13.8.		Lat. + 14.0°		Lat. + 11.7°	

Greenwich No. 3940a.		Greenwich No. 3940a.		Greenwich No. 3934c.		Greenwich No. 3923a.		Greenwich No. 3933a.	
1895. Mar. 5. 12.		1895. March 13.		1895. March 13.		1895. March 13.		1895. March 14.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5085.7	5426.5	5117.0	5426.5	5111.9	5426.5	5134.6	5426.5	5062.2	5426.5
5136.5	5671.1	5134.6	5460.6	5134.6	5671.1	5136.5	5671.1	5134.6	5671.1
5134.6	5672.1	5136.3	5671.1	5138.5	5672.1	5138.5	5672.1	5138.5	5672.1
5138.5	5703.8	5138.5	5672.1	5136.8	5727.8	5156.8	5727.8	5143.9	5727.8
5150.2	5727.8	5156.8	5727.8	5160.4	5731.4	5160.4	5731.4	5150.2	5737.8
5160.4	5737.8	5160.4	5737.8	5163.2	5737.8	5163.2	5737.8	5160.4	5743.2
Lat. — 4.6		Lat. — 4.4		Lat. + 11.7		Lat. — 13.8		Lat. — 14.0	
Greenwich No. 3934c.		Greenwich No. 3940a.		Greenwich No. 3940a.		Greenwich No. 3942c.		Greenwich No. 3949a.	
1895. March 14.		1895. March 14.		1895. March 18.		1895. March 18.		1895. March 22.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5085.7	5426.5	5045.5	5671.1	5062.2	5426.5	5117.0	5426.5	5117.0	5671.1
5117.0	5671.1	5062.2	5672.1	5134.6	5671.1	5134.6	5460.6	5134.6	5672.1
5138.5	5672.1	5134.6	5703.8	5138.5	5672.1	5138.5	5727.8	5136.3	5727.8
5143.9	5700.3	5136.3	5727.8	5150.2	5727.8	5144.0	5731.4	5138.5	5731.4
5156.8	5727.8	5138.5	5731.4	5156.8	5731.4	5156.8	5737.8	5156.8	5737.2
5160.4	5737.8	5150.2	5737.8	5160.4	5737.8	5160.4	5743.2	5160.4	5743.2
Lat. — 12.2		Lat. — 4.8		Lat. — 4.0		Lat. + 19.1		Lat. — 5.6	
Greenwich No. 3946a.		Greenwich No. 3949a.		Greenwich No. 3946a.		Greenwich No. 3957a.		Greenwich No. 3959b.	
1895. March 22.		1895. March 25.		1895. March 25.		1895. April 1.		1895. April 1.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5062.2	5426.5	5117.0	5426.5	5062.2	5671.1	5062.2	5671.1	5045.5	5671.1
5117.0	5671.1	5134.6	5671.1	5117.0	5672.1	5085.7	5672.1	5111.9	5672.1
5134.6	5672.1	5136.3	5672.1	5134.6	5703.8	5117.0	5700.3	5136.6	5703.8
5136.3	5727.8	5138.5	5727.8	5136.3	5727.8	5134.6	5727.8	5134.6	5727.8
5138.5	5731.4	5156.8	5731.4	5138.5	5731.3	5138.5	5731.4	5138.5	5731.4
5156.8	5737.2	5160.4	5737.2	5156.8	5737.2	5150.2	5743.2	5160.3	5737.8
Lat. — 10.9		Lat. — 4.7		Lat. — 9.6		Lat. — 18.8		Lat. — 9.1	

Greenwich No. 3968a.		Greenwich No. 3970b.		Greenwich No. 3970a.		Greenwich No. 3968c.		Greenwich No. 3968a.	
1895. April 9.		1895. April 9.		1895. April 9.		1895. April 9.		1895. April 11.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5062.2	5426.5	5111.9	5460.6	5062.2	5426.5	5062.2	5426.5	5062.2	5426.5
5111.9	5671.1	5134.6	5671.1	5134.6	5671.1	5117.0	5671.1	5136.3	5671.1
5138.5	5672.1	5143.9	5672.1	5138.5	5672.1	5134.6	5672.1	5138.5	5672.1
5147.8	5727.8	5147.8	5727.8	5143.9	5703.8	5143.9	5727.8	5147.8	5727.8
5150.2	5731.4	5150.2	5731.4	5150.2	5727.8	5150.2	5731.4	5150.2	5731.4
5163.2	5737.8	5160.3	5737.8	5163.2	5737.8	5156.8	5737.8	5163.2	5737.8
Lat. - 14.4°		Lat. + 5.2		Lat. + 4.0		Lat. + 7.3		Lat. - 14.2	
Greenwich No. 3970b.		Greenwich No. 3970a.		Greenwich No. 3968a.		Greenwich No. 3979b.		Greenwich No. 3975b.	
1895. April 11.		1895. April 11.		1895. April 12.		1895. April 12.		1895. April 12.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5062.2	5460.4	5062.2	5426.5	5062.2	5426.5	5062.2	5426.5	5134.6	5426.5
5085.7	5671.1	5111.9	5671.1	5138.5	5671.1	5085.7	5460.4	5136.3	5460.4
5117.0	5672.1	5134.6	5672.1	5147.8	5672.1	5134.6	5671.1	5138.5	5671.1
5134.6	5727.8	5147.8	5727.8	5150.2	5727.8	5138.5	5672.1	5147.8	5672.1
5138.5	5731.4	5150.2	5731.4	5156.8	5731.4	5150.2	5731.4	5150.2	5727.8
5150.2	5737.8	5156.8	5737.8	5163.2	5737.8	5160.3	5737.8	5156.8	5737.8
Lat. + 5.0		Lat. + 4.1°		Lat. - 14.3		Lat. - 11.8		Lat. - 10.1°	
Greenwich No. 3968a.		Greenwich No. 3979a.		Greenwich No. 3979b.		Greenwich No. 3975b.		Greenwich No. 3979a.	
1895. April 13.		1895. April 13.		1895. April 13.		1895. April 13.		1895. April 16.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5062.2	5426.5	5111.9	5426.5	5136.3	5426.5	5111.9	5460.4	5062.2	5490.0
5134.6	5671.1	5134.6	5671.1	5138.5	5671.1	5134.6	5671.1	5134.6	5671.1
5138.5	5672.1	5138.5	5672.1	5147.8	5672.1	5147.8	5672.1	5136.3	5672.1
5147.8	5727.8	5147.8	5727.8	5150.2	5727.8	5150.2	5727.8	5138.5	5727.8
5150.2	5731.4	5150.2	5731.4	5160.3	5731.4	5156.8	5731.4	5147.8	5731.4
5163.2	5737.8	5163.2	5737.8	5163.2	5737.8	5163.2	5737.8	5163.2	5737.8
Lat. - 14.3°		Lat. + 9.5°		Lat. + 11.6		Lat. - 10.4°		Lat. + 9.6°	

Greenwich No. 3979b.		Greenwich No. 3979a.		Greenwich No. 3979b.		Greenwich No. 3979a.		Greenwich No. 3979b.	
1895. April 16.		1895. April 17.		1895. April 17.		1895. April 19.		1895. April 19.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5062.2	5426.5	5062.2	5460.4	5117.0	5426.5	5062.2	5460.4	5111.9	5490.0
5134.6	5671.1	5134.6	5671.1	5134.6	5671.1	5134.6	5671.1	5134.6	5671.1
5143.9	5672.1	5136.3	5672.1	5143.9	5672.1	5136.3	5672.1	5143.9	5672.1
5150.2	5727.8	5138.5	5727.8	5150.2	5727.8	5138.5	5727.8	5147.8	5727.8
5156.8	5731.4	5150.2	5731.4	5156.8	5731.4	5147.8	5731.4	5150.2	5731.4
5160.3	5737.8	5160.3	5737.8	5160.3	5737.8	5150.2	5737.8	5156.8	5737.8
Lat. + 12.0		Lat. + 9.7		Lat. + 11.9		Lat. + 9.5		Lat. + 11.9	
Greenwich No. 3989a.		Greenwich No. 3990a.		Greenwich No. 4005a.		Greenwich No. 4005a.		Greenwich No. 4005a.	
1895. April 29.		1895. April 29.		1895. May 7.		1895. May 8.		1895. May 10.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5117.0	5426.5	5062.2	5426.5	5086.5	5426.5	5085.6	5426.5	5062.2	5490.0
5134.6	5671.1	5117.0	5671.1	5117.0	5671.1	5086.5	5671.1	5117.0	5671.1
5136.3	5672.1	5134.6	5672.1	5134.6	5672.1	5117.0	5672.1	5134.6	5672.1
5138.5	5727.8	5136.3	5727.8	5136.3	5727.8	5134.6	5727.8	5147.8	5727.8
5156.8	5731.3	5138.5	5731.3	5138.5	5731.3	5136.3	5731.3	5150.2	5731.4
5160.3	5737.8	5156.8	5737.8	5156.8	5737.8	5138.5	5737.8	5163.2	5737.8
Lat. + 23.8		Lat. + 13.0		Lat. - 13.6		Lat. - 13.7		Lat. - 13.1	
Greenwich No. 4005a.		Greenwich No. 4028a.		Greenwich No. 4027a.		Greenwich No. 4024a.		Greenwich No. 4022a.	
1895. May 11.		1895. May 22.		1895. May 22.		1895. May 22.		1895. May 22.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5062.0	5671.1	5117.0	5460.4	5134.6	5426.5	5117.0	5490.0	5062.2	5426.5
5111.9	5672.1	5134.6	5671.1	5143.9	5672.1	5138.5	5671.1	5136.3	5460.4
5134.6	5709.8	5147.8	5672.1	5147.8	5671.1	5147.8	5672.1	5138.5	5671.1
5147.8	5727.8	5150.2	5727.8	5150.2	5672.1	5150.2	5727.8	5147.8	5672.1
5150.2	5731.4	5160.3	5731.4	5156.8	5727.8	5156.8	5731.4	5156.8	5727.8
5163.2	5737.8	5163.2	5737.8	5160.3	5737.8	5160.3	5737.8	5163.2	5731.4
Lat. - 12.8		Lat. - 24.1		Lat. - 2.4		Lat. - 22.1		Lat. - 15.0	

Greenwich No. 4024a.		Greenwich No. 4028a.		Greenwich No. 4027a.		Greenwich No. 4024a.		Greenwich No. 4027a.	
1895. May 24.		1895. May 24.		1895. May 24.		1895. May 25.		1895. May 25.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5134.6	5426.5	5085.6	5426.5	5111.9	5426.5	5062.2	5426.5	5111.9	5460.4
5136.3	5671.1	5086.5	5671.1	5117.0	5671.1	5134.6	5671.1	5134.6	5671.1
5138.5	5672.1	5117.0	5672.1	5134.6	5672.1	5147.8	5672.1	5150.2	5672.1
5156.8	5727.8	5134.6	5727.8	5136.3	5727.8	5150.2	5727.8	5156.8	5703.8
5160.4	5731.3	5136.3	5731.3	5138.6	5731.3	5156.8	5731.4	5160.3	5727.8
5163.2	5737.8	5138.6	5737.8	5156.8	5737.8	5160.3	5737.8	5163.2	5737.8
Lat. + 22.2°		Lat. - 24.3°		Lat. + 2.3°		Lat. + 22.2°		Lat. + 2.3°	
Greenwich No. 4028a.		Greenwich No. 4024a.		Greenwich No. 4028a.		Greenwich No. 4024a.		Greenwich No. 4027a.	
1895. May 25.		1895. May 27.		1895. May 27.		1895. May 28.		1895. May 28.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5062.2	5426.5	5134.6	5426.5	5111.9	5426.5	5062.2	5426.5	5045.5	5627.8
5134.6	5671.1	5136.3	5671.1	5117.0	5671.1	5134.6	5671.1	5134.6	5671.1
5136.3	5672.1	5138.5	5672.1	5134.6	5672.1	5143.9	5672.1	5136.3	5672.1
5156.8	5727.8	5156.8	5727.8	5136.3	5727.8	5147.8	5727.8	5143.9	5703.8
5160.3	5731.4	5160.4	5731.4	5138.5	5731.3	5150.2	5731.4	5147.8	5727.8
5163.2	5737.8	5163.2	5737.8	5156.8	5737.8	5163.2	5737.8	5150.2	5737.8
Lat. - 24.3°		Lat. + 22.3°		Lat. - 24.0°		Lat. + 22.5		Lat. + 2.3°	
Greenwich No. 4028a.		Greenwich No. 4028a.		Greenwich No. 4027a.		Greenwich No. 4028a.		Greenwich No. 4028a.	
1895. May 28.		1895. May 29.		1895. May 29.		1895. May 30.		1895. May 31.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5062.2	5426.5	5117.0	5426.5	5062.2	5671.1	5045.5	5426.5	5062.2	5426.5
5134.6	5460.4	5134.6	5671.1	5134.6	5672.1	5111.9	5671.1	5136.3	5671.1
5136.3	5671.1	5136.3	5672.1	5136.3	5727.8	5138.5	5672.1	5138.5	5672.1
5138.5	5672.1	5138.5	5727.8	5138.5	5731.4	5143.9	5727.8	5147.8	5727.8
5147.8	5727.8	5147.8	5731.4	5156.8	5737.8	5147.8	5731.4	5150.2	5731.4
5150.2	5737.8	5156.8	5737.8	5160.4	5743.2	5163.2	5737.2	5163.2	5737.2
Lat. - 24.0		Lat. - 23.5		Lat. + 2.1°		Lat. - 23.7°		Lat. - 23.4	

Greenwich No. 4049a.		Greenwich No. 4044a.		Greenwich No. 4049a.		Greenwich No. 4052a.		Greenwich No. 4052a.	
1895. June 7.		1895. June 7.		1895. June 8.		1895. June 8.		1895. June 15.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5117.0	5426.5	5117.0	5671.1	5111.9	5426.5	5062.2	5426.5	5111.9	5426.5
5131.6	5671.1	5134.6	5672.1	5138.5	5671.1	5134.6	5460.6	5117.0	5671.1
5136.3	5672.1	5136.3	5727.8	5147.8	5672.1	5138.5	5490.1	5138.5	5672.1
5138.5	5727.8	5138.5	5731.3	5150.2	5727.8	5147.8	5727.8	5136.8	5727.8
5145.8	5731.3	5156.8	5737.2	5156.8	5731.4	5150.2	5731.4	5160.3	5731.3
5156.8	5737.2	5160.3	5743.2	5160.3	5737.2	5160.3	5737.2	5163.2	5737.2
Lat. 17°2'		Lat. 12.1		Lat. 17.4		Lat. 16.9		Lat. 16.6	
Greenwich No. 4055d.		Greenwich No. 4055d.		Greenwich No. 4060a.		Greenwich No. 4055d.		Greenwich No. 4055d.	
1895. June 15.		1895. June 17.		1895. June 17.		1895. June 18.		1895. June 20.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5062.2	5671.1	5111.9	5426.5	5062.2	5671.1	5111.9	5426.5	5111.9	5426.5
5085.6	5672.1	5117.0	5671.1	5117.0	5672.1	5117.0	5671.1	5134.6	5671.1
5117.1	5727.8	5134.6	5672.1	5138.5	5727.8	5138.5	5672.1	5138.5	5672.1
5134.6	5731.3	5138.5	5727.8	5156.8	5731.3	5147.8	5727.8	5147.8	5727.8
5138.5	5737.2	5156.8	5731.3	5160.3	5737.2	5150.2	5731.4	5150.2	5731.4
5156.8	5743.2	5160.3	5737.2	5163.2	5743.2	5160.3	5737.2	5163.2	5737.2
Lat. 11.2		Lat. 10.7		Lat. 15.9		Lat. 11.2		Lat. 10.3	
Greenwich No. 4057a.		Greenwich No. 4061a.		Greenwich No. 4063a.		Greenwich No. 4063a.		Greenwich No. 4057a.	
1895. June 20.		1895. June 20.		1895. June 20.		1895. June 21.		1895. June 21.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5117.0	5460.6	5062.2	5426.5	5111.9	5426.5	5062.2	5671.1	5085.6	5426.5
5138.5	5627.8	5134.6	5627.8	5117.0	5671.1	5117.0	5672.1	5086.5	5671.1
5141.2	5671.1	5138.5	5671.1	5138.5	5703.8	5138.5	5727.8	5117.0	5672.1
5147.8	5727.8	5143.9	5703.8	5147.8	5727.8	5147.8	5731.4	5134.6	5727.8
5150.2	5731.4	5147.8	5727.8	5150.2	5731.4	5156.8	5737.2	5138.5	5731.4
5160.3	5737.2	5163.2	5737.2	5163.2	5737.2	5163.2	5743.2	5156.8	5737.2
Lat. 21.7		Lat. 23.3		Lat. 16.3		Lat. 16.0		Lat. 21.7	

Greenwich No. 4083a.		Greenwich No. 4080a.		Greenwich No. 4084a.		Greenwich No. 4085a.		Greenwich No. 4084a.	
1895. June 25.		1895. July 6.		1895. July 8.		1895. July 8.		1895. July 10.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5117.0	5671.1	5111.9	5426.5	5111.9	5490.2	5062.2	5671.1	5052.2	5426.5
134.6	5672.1	5134.6	5460.6	5134.6	5671.1	5134.6	5672.1	5062.2	5671.1
5138.5	5703.8	5138.5	5671.1	5138.5	5672.1	5138.5	5727.8	5130.5	5672.1
5147.8	5727.8	5147.8	5696.3	5143.9	5727.8	5147.8	5731.4	5138.5	5703.8
5150.2	5731.4	5150.2	5727.8	5147.8	5731.4	5150.2	5737.2	5150.2	5727.8
5163.2	5737.2	5163.2	5737.2	5150.2	5737.2	5160.3	5743.2	5156.8	5731.4
						5426.5			
Lat. - 16°7'		Lat. - 16°9'		Lat. - 6		Lat. + 13°4'		Lat. - 5°9'	
Greenwich No. 4087d.		Greenwich No. 4087a.		Greenwich No. 4084.		Greenwich No. 4087a.		Greenwich No. 4087d.	
1895. July 10.		1895. July 10.		1895. July 10.		1895. July 11.		1895. July 11.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5045.5	5460.6	5111.9	5671.1	5052.2	5426.5	5117.0	5426.5	5043.8	5426.5
5138.5	5671.1	5134.6	5672.1	5062.2	5671.1	5134.6	5671.1	5045.5	5460.6
5150.2	5672.1	5138.5	5727.8	5130.5	5672.1	5138.5	5672.1	5062.2	5671.1
5156.8	5689.8	5156.8	5731.4	5138.5	5703.8	5147.8	5727.8	5138.5	5727.8
5160.3	5727.8	5160.3	5737.2	5150.2	5727.8	5150.2	5731.4	5147.8	5731.4
5163.2	5731.4	5163.2	5743.2	5156.8	5731.4	5160.3	5737.2	5150.2	5737.2
Lat. - 9°8'		Lat. - 6°6'		Lat. - 9°2'		Lat. - 6°4'		Lat. - 10°1'	
Greenwich No. 4084a.		Greenwich No. 4087a.		Greenwich No. 4087d.		Greenwich No. 4084a.		Greenwich No. 4095a.	
1895. July 11.		1895. July 13.		1895. July 13.		1895. July 13.		1895. July 19.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5111.9	5426.5	5043.8	5426.5	5043.8	5426.5	5111.9	5671.1	5043.8	5426.5
5143.9	5460.6	5045.5	5671.1	5045.5	5671.1	5122.2	5672.1	5062.2	5627.8
5147.8	5671.1	5122.2	5672.1	5122.2	5672.1	5134.6	5716.6	5111.9	5671.1
5150.2	5727.8	5138.5	5727.8	5138.5	5727.8	5138.5	5727.8	5138.5	5672.1
5156.8	5731.4	5147.8	5731.4	5147.8	5731.4	5147.8	5731.4	5147.8	5727.8
5163.2	5737.8	5150.2	5737.2	5150.2	5737.2	5150.2	5737.2	5150.2	5743.2
Lat. - 6°0'		Lat. - 6°5'		Lat. - 10°0'		Lat. - 5°9'		Lat. - 14°8'	

Greenwich No. 4105a.		Greenwich No. 4107.		Greenwich No. 4106a.		Greenwich No. 4111a.		Greenwich No. 4110.	
1895. August 2.		1895. August 2.		1895. August 2.		1895. August 2.		1895. August 2.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5111.9	5671.1	5043.8	5426.5	5062.2	5426.5	5062.2	5426.5	5043.8	5671.1
5122.2	5672.1	5111.9	5671.1	5111.9	5671.1	5111.9	5671.1	5111.9	5672.2
5147.8	5727.8	5122.2	5672.1	5122.2	5672.1	5122.2	5672.1	5122.2	5727.8
5150.2	5731.4	5147.8	5727.8	5147.8	5727.8	5147.8	5727.8	5147.8	5731.4
5156.8	5737.8	5156.8	5731.4	5150.2	5731.4	5150.2	5731.4	5156.8	5737.8
5163.2	5743.2	5163.2	5737.8	5156.8	5743.2	5156.8	5743.2	5163.2	5743.2
	5426.5		5460.6						
			5461.8						
Lat. - 8.9°		Lat. - 8.1°		Lat. - 7.1°		Lat. - 7.4°		Lat. + 9.3°	
Greenwich No. 4110a.		Greenwich No. 4114a.		Greenwich No. 4123a.		Greenwich No. 4123a.		Greenwich No. 4123a.	
1895. August 8.		1895. August 14.		1895. August 19.		1895. August 20.		1895. August 21.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5111.9	5671.1	5111.9	5426.5	5085.6	5426.5	5085.6	5426.5	5085.6	5426.5
5117.0	5672.1	5117.0	5671.1	5086.5	5671.1	5086.5	5671.1	5086.5	5671.1
5134.7	5727.8	5134.7	5672.1	5117.0	5672.1	5117.0	5672.1	5134.7	5672.1
5138.5	5731.3	5138.5	5727.8	5134.7	5727.8	5134.7	5727.8	5138.5	5727.8
5156.8	5737.8	5156.8	5731.4	5138.5	5731.4	5138.5	5731.4	5156.8	5731.4
5160.3	5743.2	5160.3	5737.8	5156.8	5737.8	5156.8	5737.8	5160.3	5737.8
Lat. + 10.3°		Lat. + 15.7°		Lat. + 20.0°		Lat. + 20.3°		Lat. + 20.4°	
Greenwich No. 4133a.		Greenwich No. 4139a.		Greenwich No. 4139a.		Greenwich No. 4139a.		Greenwich No. 4139a.	
1895. August 27.		1895. August 29.		1895. September 2.		1895. September 3.		1895. September 4.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5111.9	5426.5	5085.6	5426.5	5111.9	5426.5	5117.0	5426.5	5062.2	5426.5
5117.0	5460.6	5086.5	5460.6	5117.0	5671.1	5134.7	5671.1	5111.9	5460.6
5134.7	5671.1	5111.9	5671.1	5134.6	5672.1	5138.5	5672.1	5117.0	5671.1
5138.5	5672.1	5117.0	5672.1	5138.5	5727.8	5156.8	5727.8	5134.7	5672.1
5156.8	5727.8	5138.5	5737.8	5156.8	5731.4	5160.3	5731.4	5138.5	5727.8
5160.3	5731.4	5156.8	5743.2	5160.3	5737.2	5163.2	5737.2	5156.8	5731.4
Lat. + 8.6°		Lat. + 10.9°		Lat. + 10.7°		Lat. + 10.7°		Lat. + 10.7°	

Greenwich No. 4139a.		Greenwich No. 4171a.		Greenwich No. 4180a.		Greenwich No. 4180a.		Greenwich No. 4180a.	
1895. September 5.		1895. September 18.		1895. September 25.		1895. September 26.		1895. September 27.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5085.6	5426.5	5111.9	5460.6	5085.6	5426.5	5062.2	5460.6	5092.0	5426.5
5086.5	5460.6	5134.6	5671.1	5086.5	5671.1	5134.6	5671.1	5093.0	5671.1
5117.0	5727.8	5136.3	5672.1	5117.0	5672.1	5138.5	5672.1	5117.0	5672.1
5138.5	5731.3	5138.5	5727.8	5134.7	5727.8	5144.9	5727.8	5138.5	5727.8
5156.8	5737.2	5147.8	5731.4	5138.5	5731.3	5147.8	5731.4	5156.8	5731.3
5160.3	5743.2	5150.2	5737.2	5156.8	5737.2	5156.8	5737.2	5160.3	5737.2
Lat. + 10.6°		Lat. - 15.3°		Lat. + 12.2°		Lat. + 12.0°		Lat. + 11.8°	
Greenwich No. 4180a.		Greenwich No. 4185a.		Greenwich No. 4185b.		Greenwich No. 4183b.		Greenwich No. 4185a.	
1895. September 28.		1895. September 28.		1895. September 28.		1895. September 28.		1895. October 1.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5062.2	5426.5	5062.2	5426.5	5062.2	5426.5	5136.3	5426.5	5117.0	5426.5
5134.6	5671.1	5134.6	5671.1	5111.9	5671.1	5147.8	5627.8	5138.5	5671.1
5138.5	5672.1	5138.5	5672.1	5138.5	5672.1	5150.2	5671.1	5147.8	5672.1
5149.2	5727.8	5149.2	5727.8	5147.8	5727.8	5152.4	5672.1	5150.3	5727.8
5150.3	5731.4	5150.3	5731.4	5150.3	5731.4	5156.8	5727.8	5156.8	5731.4
5160.3	5737.2	5160.3	5737.2	5160.3	5737.2	5163.2	5731.4	5163.2	5737.2
		5136.3		5117.0	5460.6 5703.8 5743.2		5490.0 5737.2		
Lat. + 11.7°		Lat. - 14.3°		Lat. - 16.0°		Lat. + 16.3°		Lat. - 15.1°	
Greenwich No. 4180a.		Greenwich No. 4180a.		Greenwich No. 4185abc.		Greenwich No. 4201a.		Greenwich No. 4201a.	
1895. October 1.		1895. October 4.		1895. October 4.		1895. October 25.		1895. October 26.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
	5426.5	5111.9	5426.5	5092.0	5426.5	5092.0	5671.1	5134.6	5426.5
	5671.1	5117.0	5671.1	5093.0	5460.6	5093.0	5672.1	5136.3	5671.1
	5672.1	5134.6	5672.1	5111.9	5727.8	5134.6	5727.8	5138.5	5672.1
	5703.8	5138.5	5727.8	5117.0	5731.3	5138.5	5731.3	5156.8	5727.8
	5731.4	5156.8	5731.3	5138.5	5737.2	5156.8	5737.2	5160.3	5731.3
	5737.2	5160.3	5737.2	5156.8	5743.2	5163.2	5743.2	5163.2	5737.2
	5727.8 5743.2								
Lat. - 11.2°		Lat. + 11.1°		Lat. - 15.7°		Lat. + 10.6°		Lat. - 10.2°	

Greenwich No. 4218a.		Greenwich No. 4218a.		Greenwich No. 4221a.		Greenwich No. 4234a.		Greenwich No. 4247a.	
1895. November 14.		1895. November 16.		1895. November 19.		1895. December 2.		1895. December 13.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5111.9	5426.5	5111.9	5426.5	5062.0	5426.5	5111.9	5426.5	5111.9	5426.5
5117.0	5671.1	5134.6	5671.1	5117.0	5671.1	5117.0	5671.1	5117.0	5671.1
5134.6	5672.1	5138.5	5672.1	5134.6	5672.1	5138.5	5672.1	5138.5	5672.1
5138.5	5727.8	5147.7	5727.8	5138.6	5727.8	5156.8	5727.8	5156.8	5727.8
5147.7	5731.4	5150.2	5731.4	5156.8	5731.3	5160.3	5731.4	5160.3	5731.4
5150.2	5737.2	5163.2	5737.2	5160.3	5743.2	5163.2	5737.2	5163.2	5737.2
	5703.8		5460.6 5703.8						
Lat. - 5.6°		Lat. - 5.5°		Lat. - 3.2°		Lat. - 13.5°		Lat. + 3.5°	
Greenwich No. 4241a.		Greenwich No. 4255a.		Greenwich No. 4250a.		No record of widened lines in consequence of unfavourable weather.			
1895. December 13.		1895. December 23.		1895. December 23.					
F—b	b—D	F—b	b—D	F—b	b—D				
5085.6	5426.5	5085.6	5426.5	5085.6	5460.6				
5086.5	5671.1	5086.5	5671.1	5086.5	5671.1				
5117.0	5672.1	5134.6	5672.1	5117.0	5672.1				
5134.6	5727.8	5138.5	5727.8	5134.6	5727.8				
5138.5	5731.4	5156.8	5731.3	5138.5	5731.3				
5156.8	5737.2	5163.2	5737.2	5156.8	5737.2				
Lat. + 18.7°		Lat. - 10.2°		Lat. + 16.2°					

HERE BEGIN THE WAVE-LENGTHS

ADOPTED FROM

ROWLAND'S "TABLE OF SOLAR SPECTRUM WAVE-LENGTHS."

Greenwich No. 4277a.		Greenwich No. 4278a.		Greenwich No. 4277a.		Greenwich No. 4278a.		Greenwich No. 4279a.	
1896. January 22.		1896. January 22.		1896. January 24.		1896. January 24.		1896. January 28.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5085·668	5426·474	5111·802	5426·474	5117·071	5426·474	5134·697	5460·572	5117·071	5426·474
5086·422	5671·071	5117·071	5460·572	5134·697	5671·071	5136·270	5461·762	5134·697	5671·071
5117·071	5672·047	5134·697	5727·873	5136·270	5672·047	5138·518	5671·071	5138·518	5672·047
5138·518	5727·873	5138·518	5731·437	5138·518	5727·873	5156·823	5672·047	5150·363	5727·873
5149·267	5731·437	5156·823	5737·288	5156·823	5731·437	5160·419	5727·873	5156·823	5731·437
5156·823	5737·288	5160·419	5743·645	5163·200	5737·288	5163·200	5731·437	5160·419	5737·288
Lat. - 10·8°		Lat. - 14·0°		Lat. - 10·7°		Lat. - 14·1°		Lat. - 19·5°	
Greenwich No. 4279a.		Greenwich No. 4284a.		Greenwich No. 4296.		Greenwich No. 4296.		Greenwich No. 4295.	
1896. January 30.		1896. February 4.		1896. February 22.		1896. February 22.		1896. February 22.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5111·802	5426·474	5062·285	5426·474	5045·582	5426·474	5045·582	5426·474	5117·071	5627·859
5117·071	5671·071	5117·071	5671·071	5134·697	5671·071	5134·697	5671·071	5134·697	5671·071
5134·697	5672·047	5134·697	5672·047	5138·518	5672·047	5138·518	5672·047	5138·518	5627·047
5138·518	5727·873	5138·518	5727·873	5147·652	5727·873	5147·652	5727·873	5147·652	5727·873
5150·363	5731·437	5150·363	5731·437	5150·363	5731·437	5150·363	5731·437	5150·363	5731·437
5156·823	5737·288	5156·823	5737·288	5156·823	5737·288	5156·823	5737·288	5156·823	5737·288
					5482·078	5062·288	5482·078	5062·288	5426·474
					5490·367	5160·419	5627·859	5136·270	5703·797
					5703·797		5703·797	5149·267	5460·572
							5743·645		5460·572
Lat. - 19·3°		Lat. + 15·0°		Lat. - 16·0°		Lat. - 14·9°		Lat. + 13·5°	

Greenwich No. 4295.		Greenwich No. 4298.		Greenwich No. 4321a.		Greenwich No. 4321b.		Greenwich No. 4321a.	
1896. February 22.		1896. February 22.		1896. March 27.		1896. March 27.		1896. March 30.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5134.697	5671.071	5134.697	5461.762	5111.802	5426.474	5043.761	5426.474	5111.802	5426.474
5138.518	5672.047	5136.270	5671.071	5136.270	5482.078	5134.697	5671.071	5117.071	5671.071
5147.652	5700.402	5138.518	5672.047	5138.518	5490.367	5138.518	5672.047	5138.518	5672.047
5149.267	5727.873	5147.652	5627.873	5147.652	5727.873	5147.652	5727.873	5156.823	5727.873
5150.363	5731.437	5150.363	5731.437	5150.363	5731.437	5150.363	5731.437	5160.419	5731.437
5156.823	5737.288	5156.823	5737.288	5160.419	5737.288	5152.361	5737.288	5163.200	5737.288
5045.582	5703.797		5460.721		5671.071	5111.802	5703.797		
5062.285	5743.645		5460.572		5672.047	5160.419	5743.645		
	5460.721				5700.402		5460.572		
	5460.572				5703.797		5490.367		
	5426.474				5627.859		5627.859		
	5219.875				5490.905				
Lat. - 15.5°		Lat. - 7.5°		Lat. + 15.8°		Lat. + 19.2°		Lat. + 15.5°	
Greenwich No. 4321d.		Greenwich No. 4321e.		Greenwich No. 4321d.		Greenwich No. 4333a.		Greenwich No. 4327a.	
1896. March 30.		1896. March 31.		1896. March 31.		1896. April 7.		1896. April 7.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5138.518	5426.474	5045.582	5482.078	5045.582	5627.859	5045.582	5482.078	5136.270	5426.474
5147.652	5671.071	5062.285	5671.071	5138.518	5671.071	5111.802	5671.071	5138.518	5460.572
5150.363	5672.047	5134.697	5672.047	5143.901	5672.047	5138.518	5672.047	5147.652	5490.074
5156.823	5727.873	5147.652	5727.873	5147.652	5727.873	5147.652	5727.873	5150.363	5727.873
5160.419	5731.437	5150.363	5731.437	5150.363	5731.437	5150.363	5731.437	5152.361	5731.437
5163.200	5737.288	5152.361	5737.288	5152.361	5737.288	5152.361	5737.288	5156.823	5737.288
		5111.802	5426.474	5062.285	5219.875	5136.270	5627.859	5160.419	5671.071
		5117.071	5460.572	5063.355	5426.474	5160.419	5703.797	5163.200	5672.047
		5038.518	5627.859	5111.802	5460.572	5134.697	5460.572	5134.697	5627.859
		5063.200	5700.402	5156.823	5490.367	5117.071	5460.721	5117.071	5490.367
				5160.419	5490.905	5062.285	5426.474	5111.802	5460.721
					5737.910	5141.386		5063.353	
Lat. - 18.5°		Lat. + 14.9°		Lat. + 18.3°		Lat. - 15.6°		Lat. - 18.1°	
Greenwich No. 4333b.		Greenwich No. 4333d.		Greenwich No. 4333e.		Greenwich No. 4333e.		Greenwich No. 4333a.	
1896. April 8.		1896. April 8.		1896. April 8.		1896. April 10.		1896. April 10.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5062.285	5426.474	5045.582	5482.078	5134.697	5482.078	5134.697	5426.474		5426.474
5134.697	5671.071	5134.697	5671.071	5136.270	5671.071	5136.270	5671.071		5671.071
5136.270	5672.047	5138.518	5672.047	5138.518	5672.047	5138.518	5672.047	Cloudy	5672.047
5138.518	5727.873	5147.652	5727.873	5147.652	5727.873	5147.652	5727.873		5727.873
5147.652	5731.437	5150.363	5731.437	5149.267	5731.437	5149.267	5731.437		5731.437
5150.363	5737.288	5156.823	5737.288	5150.363	5737.288	5150.363	5737.288		5737.288
	5482.078				5426.474	5062.285	5482.078		5482.078
					5490.367	5111.802	5490.074		5490.074
					5219.875	5151.628	5490.367		5490.367
							5426.474		5426.474
Lat. - 15.7°		Lat. - 15.0°		Lat. - 18.0°		Lat. - 18.5°		Lat. - 15.9°	

Greenwich No. 4339a.		Greenwich No. 4361a.		Greenwich No. 4361.		Greenwich No. 4361c.		Greenwich No. 4364a.	
1896. May 21.		1896. May 28.		1896. June 1.		1896. June 1.		1896. June 4.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5045·582	5490·367	5111·802	5426·474	5111·802	5426·474	5085·668	5426·474	5062·285	5426·474
5134·697	5671·071	5117·071	5460·721	5117·071	5671·071	5086·422	5671·071	5134·697	5671·071
5147·652	5672·047	5134·697	5671·071	5134·697	5672·047	5117·071	5672·047	5136·270	5672·047
5149·267	5727·873	5138·518	5672·047	5138·518	5727·873	5134·697	5727·873	5147·652	5727·873
5150·363	5731·437	5156·823	5727·873	5156·823	5731·437	5138·518	5731·437	5150·363	5731·437
5152·361	5737·288	5160·419	5731·437	5160·419	5737·288	5156·823	5737·288	5163·200	5737·288
	5426·474								5490·572
									5482·078
									5490·367
									5703·797
									5716·671
Lat. - 9°5'		Lat. - 8°9'		Lat. - 11°7'		Lat. - 9°5'		Lat. - 21°4'	
Greenwich No. 4364a.		Greenwich No. 4364a.		Greenwich No. 4365a.		Greenwich No. 4369a.		Greenwich No. 4368a.	
1896. June 5.		1896. June 11.		1896. June 11.		1896. June 11.		1896. June 12.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5117·071	5426·474	5045·582	5671·071	5134·697	5490·367	5111·802	5671·071	5111·802	5671·071
5134·697	5671·071	5117·071	5672·047	5136·270	5671·071	5134·697	5672·047	5134·697	5672·047
5138·518	5672·047	5134·697	5703·797	5147·652	5672·047	5136·270	5703·797	5147·652	5703·797
5150·363	5727·873	5147·652	5727·873	5150·363	5727·873	5147·652	5727·873	5150·363	5727·873
5156·823	5731·437	5150·363	5731·437	5152·361	5731·437	5150·363	5731·437	5152·361	5731·437
5163·200	5737·288	5152·361	5737·288	5156·823	5737·288	5156·823	5737·288	5156·823	5737·288
			5426·474				5426·474	5045·582	5426·474
							5490·367	5138·518	5482·078
							5700·402	5126·270	3490·367
Lat. - 21°2'		Lat. - 20°7'		Lat. - 11°2'		Lat. - 14°8'		Lat. - 16°5'	
Greenwich No. 4369a.		Greenwich No. 4368a.		Greenwich No. 4369a.		Greenwich No. 4369b.		Greenwich No. 4369a.	
1896. June 12.		1896. June 15.		1896. June 16.		1896. June 16.		1896. June 18.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5045·582	5426·474	5117·071	5426·474	5062·285	5426·474	5062·285	5490·367	5117·071	5426·474
5134·697	5671·071	5134·697	5671·071	5138·518	5671·071	5117·071	5671·071	5138·518	5671·071
5147·652	5672·047	5147·652	5672·047	5147·652	5672·047	5138·518	5672·047	5147·652	5672·047
5150·363	5703·797	5150·363	5703·797	5150·363	5703·797	5147·652	5703·797	5150·363	5727·873
5152·361	5727·873	5152·361	5727·873	5152·361	5727·873	5150·363	5727·873	5156·823	5731·437
5156·823	5731·437	5156·823	5731·437	5156·823	5731·437	5156·823	5731·437	5160·419	5737·288
5117·071	5700·402		5490·367	5143·901	5627·859				
	5737·288		5737·288	5150·363	5737·288				
	5627·859			5136·270	5490·367				
	5490·367			5134·697	5460·572				
	5460·572			5117·071	5219·875				
				4920·047					
Lat. - 16°8'		Lat. - 16°2'		Lat. - 15°2'		Lat. - 14°3'		Lat. - 14°7'	

Greenwich No. 4386a.		Greenwich No. 4395a.		Greenwich No. 4395a.		Greenwich No. 4395a.		Greenwich No. 4407a.	
1896. July 9.		1896. July 13.		1896. July 14.		1896. July 21.		1896. August 11.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5111-802	5426-474	5111-802	5426-474	5111-802	5426-474	(5) 5111-802	(6) 5426-474	5111-802	5426-474
5117-071	5671-071	5117-071	5671-071	5117-071	5671-071	(4) 5134-697	(1) 5671-071	5117-071	5671-071
5134-697	5672-047	5138-518	5672-047	5134-697	5672-047	(6) 5138-518	(2) 5672-047	5138-518	5672-047
5138-518	5727-873	5156-823	5727-873	5138-518	5727-873	(2) 5156-823	(3) 5727-873	5156-823	5727-873
5147-652	5731-437	5160-419	5731-437	5156-823	5731-437	(1) 5160-419	(4) 5731-437	5160-419	5731-437
5156-823	5737-288	5163-200	5737-288	5160-419	5737-288	(3) 5163-200	(5) 5743-645	5163-200	5737-288
Lat. - 14-7°		Lat. - 20-8°		Lat. - 19-5°		Lat. - 20-6°		Lat. - 19-2°	
Greenwich No. 4407a.		Greenwich No. 4407a.		Greenwich No. 4416a.		Greenwich No. 4416a.		Greenwich No. 4428.	
1896. August 14.		1896. August 20.		1896. August 29.		1896. September 3.		1896. September 19.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5085-668	5426-474		(6) 5426-474	(1) 5111-802	(6) 5426-474	(1) 5111-802	(5) 5426-474	5085-668	5426-474
5086-422	5671-071		(4) 5671-071	(2) 5134-697	(2) 5671-071	(2) 5117-071	(2) 5671-071	5086-422	5671-071
5117-071	5672-047	Cloudy.	(5) 5672-047	(3) 5150-363	(1) 5672-047	(3) 5134-697	(1) 5672-047	5138-518	5672-047
5156-823	5727-873		(1) 5727-873	(4) 5156-823	(5) 5727-873	(4) 5150-363	(6) 5727-873	5156-823	5727-873
5160-419	5731-437		(2) 5731-437	(5) 5160-419	(4) 5731-437	(5) 5156-823	(4) 5737-288	5160-419	5731-437
5163-200	5737-288		(3) 5737-288	(6) 5163-200	(3) 5743-645	(6) 5160-419	(3) 5743-645	5163-200	5737-288
				5112-617	5737-288	5163-200	5731-437		
				5117-071					
Lat. - 19-7°		Lat. - 20-9°		Lat. - 11-4°		Lat. - 11-3°		Lat. + 10-4°	
Greenwich No. 4435b.		Greenwich No. 4435a.		Greenwich No. 4435a.		Greenwich No. 4451a.		Greenwich No. 4447a.	
1896. September 23.		1896. September 23.		1896. September 28.		1896. October 26.		1896. October 26.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5085-668	5671-071	5085-668	5460-372	5134-697	5671-071	5045-582	5426-474	5062-285	5426-474
5111-802	5672-047	5086-422	5671-071	5136-270	5672-047	5136-270	5482-078	5136-270	5671-071
5117-071	5727-873	5117-071	5672-047	5138-518	5727-873	5138-518	5671-071	5147-652	5672-047
5138-518	5731-437	5138-518	5727-873	5147-652	5731-437	5147-652	5672-047	5150-363	5703-797
5156-823	5737-288	5156-823	5731-437	5150-363	5737-288	5150-363	5727-873	5152-361	5727-873
5160-419	5743-645	5160-419	5737-288	5156-823	5743-645	5152-361	5731-437	5156-823	5731-437
						5134-697	5460-372	5138-518	5627-859
						5149-267	5460-721	5143-901	5737-288
							5703-797	5134-697	5480-365
								5134-849	5480-367
									5482-078
									5460-372
Lat. - 13-2°		Lat. - 10-8°		Lat. - 11-1°		Lat. - 11-3°		Lat. - 7-3°	

Greenwich No. 4451a.		Greenwich No. 4451b.		Greenwich No. 4456a.		Greenwich No. 4456a.		Greenwich No. 4456a.	
1896. October 27.		1896. October 28.		1896. November 3.		1896. November 4.		1896. November 5.	
F — b	b — D	F — b	b — D	F — b	b — D	F — b	b — D	F — b	b — D
5134·697	5426·474	5134·697	5426·474	5062·285	5426·474	5134·697	5426·474	5062·285	5426·474
5136·270	5671·071	5136·270	5671·071	5134·697	5460·572	5136·270	5671·071	5134·697	5671·071
5147·652	5672·047	5138·518	5672·047	5136·270	5671·071	5138·518	5672·047	5136·270	5672·047
5150·363	5703·797	5139·363	5727·873	5147·652	5672·047	5150·363	5727·873	5147·652	5727·873
5152·361	5727·873	5152·361	5731·437	5150·363	5727·873	5156·823	5731·437	5149·267	5731·437
5156·823	5731·437	5156·823	5737·288	5156·823	5731·437	5160·419	5737·288	5150·363	5737·288
5045·582	5219·875			5111·802	5460·721	5117·071	5460·572	5117·071	5219·875
5062·285	5460·572			5143·901	5627·859	5147·652	5461·762	5132·338	5460·572
	5460·721			5152·361	5700·402	5163·200	5703·797	5135·518	5460·721
	5482·078				5703·797			5156·823	5627·859
	5490·367								5703·797
	5490·905								
Lat. - 14·3°		Lat. - 14·9°		Lat. - 14·8°		Lat. - 15·0°		Lat. - 14·9°	
Greenwich No. 4456a.		Greenwich No. 4456a.		Greenwich No. 4461a.		Greenwich No. 4456a.		Greenwich No. 4488a.	
1896. November 6.		1896. November 9.		1896. November 9.		1896. November 10.		1896. December 22.	
F — b	b — D	F — b	b — D	F — b	b — D	F — b	b — D	F — b	b — D
5134·697	5426·474	5134·697	5426·474	5134·697	5426·474	5062·285	5426·474	5134·697	5426·474
5136·270	5460·572	5136·270	5671·071	5136·270	5671·071	5134·697	5671·071	5136·270	5671·071
5138·518	5671·071	5138·518	5672·047	5138·518	5672·047	5136·270	5672·047	5138·518	5672·047
5147·652	5672·047	5150·363	5727·873	5150·363	5727·873	5147·652	5727·873	5147·652	5727·873
5150·363	5727·873	5156·823	5731·437	5156·823	5731·437	5150·363	5731·437	5150·363	5731·437
5156·823	5731·437	5160·419	5737·288	5160·419	5737·288	5156·823	5737·288	5156·823	5737·288
						5138·518	5627·859 5703·797		
Lat. - 15·0°		Lat. - 15·3°		Lat. - 11·6°		Lat. - 15·5°		Lat. - 6·3	
Greenwich No. 4488a.		Greenwich No. 4489a.		Greenwich No. 4489a.		Greenwich No. 4492.		Greenwich No. 4491a.	
1896. December 29.		1896. December 29.		1896. December 31.		1896. December 31.		1896. December 31.	
F — b	b — D	F — b	b — D	F — b	b — D	F — b	b — D	F — b	b — D
Spectrum too dim.	(6) 5426·474 (1) 5671·071 (2) 5672·047 (3) 5727·873 (4) 5731·437 (5) 5737·288	Spectrum too dim.	(1) 5426·474 (4) 5460·572 (6) 5627·859 (2) 5671·071 (3) 5672·047 (5) 5731·437	(1) 5136·270 (3) 5138·518 (5) 5147·652 (2) 5150·363 (4) 5160·419 (6) 5163·200	(3) 5426·474 (4) 5460·572 (1) 5671·071 (2) 5672·047 (5) 5731·437	(4) 5117·071 (3) 5136·270 (2) 5138·517 (5) 5147·652 (6) 5150·363 (1) 5160·419	(3) 5426·474 (6) 5460·572 (1) 5671·071 (2) 5672·047 (5) 5727·873 (4) 5737·288	(2) 5117·071 (5) 5134·697 (3) 5136·270 (6) 5150·363 (1) 5160·419 (4) 5163·200	(6) 5426·474 (4) 5627·859 (1) 5671·071 (2) 5672·047 (3) 5703·797 (5) 5731·437
Lat. + 4·2°		Lat. - 14·0°		Lat. - 13·8°		Lat. - 19·5°		Lat. - 13·3	

Greenwich No. 4505a.		Greenwich No. 4510a.		Greenwich No. 4510a.		Greenwich No. 4510a.		Greenwich No. 4526a.	
1897. January 25.		1897. January 25.		1897. January 26.		1897. January 27.		1897. February 17.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5045-474	5426-474	5134-697	5426-474	5134-697	5426-474	5134-697	5426-474	Cloudy.	5426-474
5136-270	5671-071	5138-518	5671-071	5138-518	5671-071	5136-270	5671-071		5671-071
5138-518	5672-047	5147-652	5672-047	5147-652	5672-047	5138-518	5672-047		5672-047
5147-652	5727-873	5150-363	5727-873	5150-363	5727-873	5147-652	5727-873		5727-873
5152-361	5731-437	5152-361	5731-437	5152-361	5731-437	5150-363	5731-437		5731-437
5156-823	5737-288	5156-823	5737-288	5156-823	5737-288	5156-823	5737-288		5737-288
5111-802	5460-561	5045-582	5460-474	5045-582	5460-572				
5134-697	5460-474	5111-802	5461-088	5136-270	5461-088				
5150-363	5627-859	5136-270	5703-797		5627-859				
5160-419	5703-797				5700-402				
					5703-797				
Lat. + 6°2'		Lat. + 5°5'		Lat. + 5°4'		Lat. + 5°1'		Lat. + 6°5'	
Greenwich No. 4526a.		Greenwich No. 4531a.		Greenwich No. 4532a.		Greenwich No. 4531a.		Greenwich No. 4532a.	
1897. February 18.		1897. February 22.		1897. February 26.		1897. March 1.		1897. March 1.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5045-582	5426-474	5117-071	5426-474	5117-071	5426-474	5134-697	5426-474	5134-697	5426-474
5062-285	5671-071	5134-697	5460-572	5134-697	5671-071	5136-270	5671-071	5138-518	5671-071
5134-697	5703-797	5138-518	5671-071	5138-518	5672-047	5138-518	5672-047	5147-652	5672-047
5147-652	5727-873	5147-652	5672-047	5147-652	5727-873	5147-652	5727-873	5150-363	5727-873
5152-361	5731-437	5150-363	5727-873	5150-363	5731-437	5150-363	5731-437	5156-823	5731-437
5156-823	5737-288	5156-823	5731-437	5156-823	5737-288	5156-823	5737-288	5160-419	5737-288
5063-290	5219-875								
5136-270	5460-572								
5138-518	5490-367								
	5490-905								
	5627-859								
	5700-402								
Lat. + 5°9'		Lat. + 12°3'		Lat. + 0°2'		Lat. + 12°1'		Lat. + 0°4'	
Greenwich No. 4535a.		Greenwich No. 4531a.		Greenwich No. 4535a.		Greenwich No. 4535a.		Greenwich No. 4536a.	
1897. March 1.		1897. March 2.		1897. March 2.		1897. March 5.		1897. March 5.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5111-802	5426-474	5063-355	5426-474	5134-697	5426-474	5134-697	5426-474	5117-071	5426-474
5117-071	5460-572	5147-652	5671-071	5138-518	5671-071	5136-270	5671-071	5140-336	5460-572
5134-697	5671-071	5149-267	5672-047	5147-652	5672-047	5138-518	5672-047	5141-386	5671-071
5138-518	5672-047	5150-363	5727-873	5150-363	5737-873	5147-652	5727-873	5147-652	5672-047
5150-363	5727-873	5152-361	5731-437	5152-361	5731-437	5150-363	5731-437	5150-363	5727-873
5156-823	5731-437	5156-823	5737-288	5156-823	5737-288	5156-823	5737-288	5156-823	5731-437
				5149-267			5471-414		5068-593
				5160-419			5482-078		5737-288
							5490-367		5743-645
							5627-859		
							5668-593		
							5743-645		
Lat. 7°6'		Lat. + 12°2'		Lat. + 7°7'		Lat. 7°8'		Lat. + 2°0'	

Greenwich No. 4532b.		Greenwich No. 4541c.		Greenwich No. 4541c.		Greenwich No. 4541c.		Greenwich No. 4541c.	
1897. March 5.		1897. March 11.		1897. March 12.		1897. March 18.		1897. March 19.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5134·697	5426·474	5045·582	5426·474	5117·071	5426·474	5045·582	5426·474	5117·071	5426·474
5136·270	5671·071	5063·355	5671·071	5134·697	5671·071	5138·518	5671·071	5134·697	5671·071
5147·652	5672·047	5134·697	5672·047	5138·518	5672·047	5147·652	5672·047	5138·518	5672·047
5150·363	5727·873	5147·652	5703·797	5147·652	5727·873	5150·363	5727·873	5147·652	5727·873
5156·823	5731·437	5152·361	5727·873	5150·363	5731·437	5152·361	5731·437	5150·363	5731·437
5160·419	5737·288	5156·823	5731·437	5156·823	5737·288	5156·823	5737·288	5156·823	5737·288
		5111·802	5219·875		5460·572	5062·285	5219·875		
		5117·071	5460·474		5627·873	5063·355	5703·797		
		5136·270	5668·593		5668·593	5117·071	5743·645		
		5138·518	5702·543		5743·645	5134·697			
		5150·363	5737·288			5136·270			
			5743·645						
Lat. - 2·1°		Lat. + 5·5°		Lat. + 5·3°		Lat. + 5·4°		Lat. + 5·8°	
Greenwich No. 4549a.		Greenwich No. 4553a.		Greenwich No. 4554a.		Greenwich No. 4554a.		Greenwich No. 4554a.	
1897. March 23.		1897. March 30.		1897. March 30.		1897. April 5.		1897. April 6.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5045·582	5426·474	5062·285	5426·474	5062·285	5426·474	5134·697	5426·474	5045·582	5627·859
5134·697	5671·071	5134·697	5671·071	5087·239	5671·071	5136·270	5671·071	5134·697	5671·071
5147·652	5672·047	5147·652	5672·047	5134·697	5672·047	5138·518	5672·047	5147·652	5672·047
5148·851	5727·873	5150·363	5727·873	5147·652	5727·873	5147·652	5727·873	5150·363	5727·873
5150·363	5731·437	5152·361	5731·437	5150·363	5731·437	5150·363	5731·437	5152·361	5731·437
5152·361	5737·288	5156·823	5737·288	5152·361	5737·288	5156·823	5737·288	5156·823	5737·288
5063·355	5219·875	5045·582	5219·875	5045·582	5219·875			5063·355	5219·875
5111·802	5225·695	5063·355	5490·367	5117·071	5490·367			5117·071	5426·474
5117·071	5460·572	5087·239	5627·859	5138·518	5627·859			5136·270	5703·797
5136·270	5703·797	5111·802	5703·797	5148·851	5668·593			5138·518	
5138·518	5732·522	5117·071	5732·522	5160·419	5703·797				
		5138·518	5743·645	5163·200	5743·645				
Lat. - 2·6°		Lat. - 12·6°		Lat. + 4·4°		Lat. + 3·9°		Lat. + 4·0°	
Greenwich No. 4560c.		Greenwich No. 4554a.		Greenwich No. 4560c.		Greenwich No. 4560f.		Greenwich No. 4560c.	
1897. April 7.		1897. April 8.		1897. April 8.		1897. April 8.		1897. April 10.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
Cloudy.	5671·071	5045·582	5426·474	5045·582	5426·474	5045·582	5482·078	5045·582	5426·474
	5672·047	5138·518	5671·071	5134·697	5671·071	5138·518	5671·071	5134·697	5671·071
	5727·873	5147·652	5672·047	5147·652	5672·047	5147·652	5672·047	5150·363	5672·047
	5731·437	5150·363	5727·873	5150·363	5727·873	5150·363	5727·873	5156·823	5727·873
	5737·288	5152·361	5731·437	5152·361	5731·437	5152·361	5731·437	5160·419	5731·437
		5156·823	5737·288	5156·823	5737·288	5156·823	5737·288	5163·200	5737·288
		5148·851	5743·645	5063·355	5432·753	5063·355	5219·875	5138·518	5219·875
		5063·355		5136·270	5627·859		5426·474	5147·652	5482·078
				5138·518	5703·797		5432·753	5152·361	5460·572
				5160·419	5739·698		5460·572		5627·859
				5163·200	5740·195		5627·859		5703·797
					5743·645				
Lat. + 2·4°		Lat. + 3·7°		Lat. + 2·4°		Lat. - 7·1°		Lat. + 1·4°	

Greenwich No. 4566c.		Greenwich No. 4566c.		Greenwich No. 4567a.		Greenwich No. 4572a.		Greenwich No. 4572a.	
1897. April 14.		1897. April 15.		1897. April 19.		1897. April 20.		1897. May 1.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5117.071	5426.474	5043.761	5460.572	5045.582	5482.078	5043.761	5460.572	5043.761	5426.474
5134.697	5671.071	5085.668	5671.071	5134.697	5671.071	5045.582	5671.071	5045.582	5671.071
5138.518	5672.047	5147.652	5672.047	5147.652	5672.047	5147.652	5672.047	5147.652	5672.047
5147.652	5727.873	5150.363	5727.873	5150.363	5727.873	5150.363	5727.873	5148.851	5727.873
5150.363	5731.437	5152.361	5731.437	5152.361	5731.437	5152.361	5731.437	5150.363	5731.437
5156.823	5737.288	5156.823	5737.288	5156.823	5737.288	5156.823	5737.288	5160.419	5737.288
		5045.582	5219.875	5063.355	5426.474	5022.240	5219.875	5134.697	5219.875
		5062.285	5426.474	5136.270	5627.859	5134.697	5426.474	5152.361	5460.572
		5063.355	5482.078			5149.267	5482.078	5156.823	5482.078
		5138.518	5627.859				5627.859		5627.859
		5140.336	5703.797				5740.195		5703.797
		5160.419	5743.645				5743.645		5743.645
Lat. - 24		Lat. + 27		Lat. + 5.3		Lat. - 13.3		Lat. - 12.6	
Greenwich No. 4573a.		Greenwich No. 4572a.		Greenwich No. 4573a.		Greenwich No. 4572a.		Greenwich No. 4573a.	
1897. May 1.		1897. May 3.		1897. May 3.		1897. May 4.		1897. May 4.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5045.582	5482.078	5134.697	5426.474	5111.802	5426.474	5045.582	5426.474	5045.582	5482.078
5147.652	5671.071	5136.270	5671.071	5134.697	5671.071	5147.652	5671.071	5147.652	5671.071
5148.851	5672.047	5150.363	5672.047	5136.270	5672.047	5148.851	5672.047	5148.851	5672.047
5150.363	5727.873	5156.823	5727.873	5138.518	5727.873	5150.363	5727.873	5150.363	5727.873
5152.361	5731.437	5160.419	5731.437	5156.823	5731.437	5152.361	5731.437	5152.361	5731.437
5156.823	5737.288	5163.200	5737.288	5163.200	5737.288	5160.419	5737.288	5156.823	5737.288
5043.761	5219.875					5134.697	5460.572	5043.761	5426.474
5062.285	5426.474					5138.518	5471.414	5062.285	5460.572
5134.697	5460.572					5156.823	5482.078	5134.697	5471.414
5160.419	5627.859					5163.200	5490.367	5138.518	5700.402
	5743.645						5627.859	5160.419	5703.797
							5703.797		5743.645
Lat. + 3.3		Lat. - 12.3		Lat. + 3.3		Lat. - 12.1		Lat. + 3.3	
Greenwich No. 4572a.		Greenwich No. 4576a.		Greenwich No. 4579a.		Greenwich No. 4579a.		Greenwich No. 4579a.	
1897. May 10.		1897. May 22.		1897. May 25.		1897. May 27.		1897. May 31.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
	5426.474	5045.582	5426.474	5045.582	5482.078	5045.582	5426.474	5111.802	5426.474
	5671.071	5134.697	5671.071	5062.285	5671.071	5147.652	5671.071	5117.071	5460.572
	5672.047	5147.652	5672.047	5147.652	5672.047	5148.851	5672.047	5134.697	5727.873
	5727.873	5150.363	5727.873	5148.851	5727.873	5150.363	5727.873	5138.518	5731.437
	5731.437	5152.361	5731.437	5150.363	5731.437	5152.361	5731.437	5156.823	5737.288
	5737.288	5156.823	5737.288	5156.823	5737.288	5160.419	5737.288	5160.419	5743.645
		5062.285	5460.572	5043.761	5219.875	5062.285	5219.875		
		5160.419	5482.078	5134.697	5426.474	5134.697	5460.572		
			5743.645		5460.572		5482.078		
					5703.797		5627.859		
					5740.195		5703.797		
					5743.645		5743.645		
Lat. - 10.9		Lat. - 1.6		Lat. - 9.3		Lat. - 9.2		Lat. - 9.0	

Greenwich No. 4579a.		Greenwich No. 4583a.		Greenwich No. 4588a.		Greenwich No. 4588a.		Greenwich No. 4588a.			
1897. June 5.		1897. June 12.		1897. June 22.		1897. June 23.		1897. June 29.			
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D		
5045-582	5426-474	5045-582	5482-078	5045-582	5426-474	5045-582	5426-474	5045-582	5426-474		
5138-518	5671-071	5136-270	5671-071	5134-697	5671-071	5134-697	5671-071	5134-697	5671-071		
5147-652	5672-047	5138-518	5672-047	5147-652	5672-047	5147-652	5672-047	5147-652	5672-047		
5150-363	5727-873	5147-652	5727-873	5150-363	5727-873	5150-363	5727-873	5150-363	5727-873		
5152-361	5731-437	5150-363	5731-437	5152-361	5731-437	5152-361	5731-437	5152-361	5731-437		
5160-419	5737-288	5156-823	5737-288	5156-823	5737-288	5156-823	5743-645	5156-823	5737-288		
5118-987	5460-572	5117-071	5426-474	5117-071	5219-875	5062-285	5219-875	5136-270	5219-875		
5134-697	5482-078	5152-361	5460-572	5148-851	5460-572	5087-239	5460-572	5138-518	5460-474		
5148-851	5627-859	5160-419	5703-797	5160-419	5482-078	5138-518	5482-078	5143-901	5482-078		
5156-823	5703-797		5737-910				5703-797	5148-851	5627-859		
	5867-785		5743-645				5737-288		5703-797		
		This spot is not recorded until June 13 at Greenwich.					5867-785		5743-645		
Lat. - 8°7'		Lat. - 15°0'		Lat. - 8°8'		Lat. - 8°5'		Lat. - 8°6'			
Greenwich No. 4588a.		Greenwich No. 4590a.		Greenwich No. 4588a.		Greenwich No. 4590a.		Greenwich No. 4592a.			
1897. June 30.		1897. June 30.		1897. July 1.		1897. July 1.		1897. July 6.			
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D		
5134-697	5426-474	5134-697	5426-474	4905-310	5426-474	5134-697	5482-078	5117-071	5426-474		
5138-518	5671-071	5136-270	5671-071	5045-582	5460-572	5136-270	5671-071	5138-518	5671-071		
5147-652	5672-047	5138-518	5672-047	5147-652	5627-859	5147-652	5672-047	5147-652	5672-047		
5150-363	5727-873	5147-652	5727-873	5150-363	5671-071	5150-363	5727-873	5150-363	5727-873		
5156-823	5731-437	5150-363	5731-437	5152-361	5672-047	5152-361	5731-437	5156-823	5731-437		
5160-419	5737-288	5156-823	5737-288	5156-823	5737-288	5156-823	5737-288	5160-419	5737-288		
				5040-138	5219-875	5045-572	5219-875				
				5012-252	5482-078	5087-239	5426-474				
				5043-761	5703-797	5087-661	5867-785				
				5134-697	5727-873	5117-071					
				5136-270	5731-437	5148-851					
Lat. - 8°5'		Lat. - 2°9'		Lat. - 8°5'		Lat. - 3°1'		Lat. - 10°9'			
Greenwich No. 4594a.		Greenwich No. 4592a.		Greenwich No. 4594c.		Greenwich No. 4594c.		Greenwich No. 4595a.		Greenwich No. 4601b.	
1897. July 8.		1897. July 13.		1897. July 13.		1897. July 14.		1897. July 15.		1897. July 24.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5136-270	5426-474	5045-582	5482-078	5134-697	5482-078	5117-071	5426-474	5045-582	5482-078	5087-239	5627-873
5143-901	5482-078	5134-697	5671-071	5136-270	5627-859	5136-270	5671-071	5122-299	5671-071	5147-652	5671-071
5147-652	5627-859	5136-270	5672-047	5143-901	5671-071	5138-518	5672-047	5136-270	5672-047	5148-851	5672-047
5150-363	5671-071	5147-652	5727-873	5147-652	5672-047	5156-823	5727-873	5147-652	5727-873	5150-363	5727-873
5152-361	5672-047	5150-363	5731-437	5150-363	5727-873	5160-419	5731-437	5150-363	5731-437	5152-361	5731-437
5156-823	5737-288	5152-361	5737-288	5152-361	5737-288	5163-200	5737-288	5152-361	5737-288	5160-419	5737-288
5045-572	5219-875	5138-518	5219-875	5045-582	5219-875			5134-697	5426-474	5134-697	5426-474
5087-601	5282-576	5160-419	5426-474	5094-594	5426-474			5138-518	5627-873	5136-270	5460-572
5134-697	5460-474		5460-572		5460-572			5156-823	5668-593	5156-823	5482-078
	5703-797				5700-402				5739-698		5703-797
	5727-873				5703-797				5740-195		
	5731-437				5731-437						
Lat. - 5°6'		Lat. - 11°3'		Lat. - 5°8'		Lat. - 5°6'		Lat. - 11°1'		Lat. - 6°9'	

Greenwich No. 4600a.		Greenwich No. 4601a.		Greenwich No. 4600a.		Greenwich No. 4600a.		Greenwich No. 4605a.	
1897. July 24.		1897. July 27.		1897. July 27.		1897. July 30.		1897. August 3.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5045-582	5460-572	5045-582	5426-474	5134-697	5671-071	5045-582	5426-474	5066-174	5460-572
5136-270	5671-071	5062-285	5671-071	5136-270	5672-047	5134-697	5671-071	5087-239	5671-071
5147-652	5672-047	5134-697	5672-047	5147-652	5727-873	5138-518	5672-047	5147-652	5672-047
5150-363	5727-873	5136-270	5727-873	5152-361	5731-437	5147-652	5727-873	5148-851	5727-873
5152-361	5731-437	5147-652	5731-437	5156-823	5737-288	5156-823	5731-437	5150-363	5731-437
5156-823	5737-288	5160-419	5743-645	5160-419	5743-645	5160-419	5743-645	5152-361	5737-288
5062-285	5219-875							5062-285	5219-875
5134-697	5426-474							5111-802	5426-474
5143-901	5627-859							5136-270	5482-078
	5703-797							5138-518	5743-645
	5703-797							5156-823	
								5163-200	
Lat. - 13°		Lat. - 9°		Lat. + 13°		Lat. - 14°		Lat. - 5°	
Greenwich No. 4605a.		Greenwich No. 4605a.		Greenwich No. 4605a.		Greenwich No. 4605a.		Greenwich No. 4605a.	
1897. August 4.		1897. August 5.		1897. August 9.		1897. August 10.		1897. August 12.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5066-174	5460-572	5045-582	5460-572	5045-582	5460-572	5045-582	5460-572	5045-582	5460-572
5087-239	5671-071	5087-239	5671-071	5087-239	5671-071	5087-239	5671-071	5087-239	5671-071
5147-652	5672-047	5148-851	5672-047	5140-094	5672-047	5140-094	5672-047	5140-094	5672-047
5148-851	5727-873	5150-363	5727-873	5148-851	5727-873	5148-851	5727-873	5148-851	5727-873
5150-363	5731-437	5152-361	5731-437	5150-363	5731-437	5150-363	5731-437	5150-363	5731-437
5152-361	5737-288	5160-419	5737-288	5156-823	5737-288	5152-361	5737-288	5156-823	5737-288
5045-582	5219-875	5040-138	5426-474	5111-802	5490-367	5062-285	5219-875	5111-802	5219-875
5111-802	5426-474	5062-285	5471-414	5134-697	5490-905	5141-386	5426-474	5134-697	5426-474
5134-697	5482-078	5138-518	5482-078	5136-270	5426-474	5143-901	5471-414	5136-270	5482-078
5138-518	5627-859	5147-652	5490-367	5138-518	5482-078	5144-203	5482-078	5138-518	5627-859
5156-823	5703-797	5143-386	5490-905	5141-386	5703-797	5156-823	5627-859	5147-652	5743-645
5160-419	5743-645		5627-859	5147-652	5627-859	5160-419	5743-645	5152-361	
Lat. - 5°		Lat. - 5°		Lat. - 5°		Lat. - 5°		Lat. - 5°	
Greenwich No. 4605a.		Greenwich No. 4611a.		Greenwich No. 4611a.		Greenwich No. 4611a.		Greenwich No. 4615a.	
1897. August 14.		1897. August 18.		1897. August 19.		1897. August 21.		1897. August 30.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5045-582	5426-474	5045-582	5460-572	5045-582	5482-078	5045-582	5482-078	5045-582	5482-078
5087-239	5671-071	5087-239	5671-071	5143-901	5671-071	5087-239	5671-071	5087-239	5671-071
5147-652	5672-047	5147-652	5672-047	5147-652	5672-047	5147-652	5672-047	5147-652	5672-047
5148-851	5727-873	5150-363	5727-873	5150-363	5727-873	5150-363	5727-873	5148-851	5727-873
5150-363	5731-437	5152-361	5731-437	5152-361	5731-437	5152-361	5731-437	5150-363	5731-437
5152-361	5737-288	5156-823	5737-288	5156-823	5737-288	5156-823	5737-288	5152-361	5737-288
5134-697	5219-875	5043-761	5219-875	5062-285	5219-875	5062-285	5219-875		
5136-270	5460-572	5160-419	5426-474	5087-239	5426-474	5134-697	5426-474		
5138-518	5471-414		5471-414	5138-518	5460-572	5136-270	5460-572		
5140-094	5482-078		5482-078	5148-851	5471-414	5148-851	5471-414		
5156-823	5627-859		5627-859	5163-200	5627-859	5160-419	5627-859		
	5703-797				5743-645		5703-797		
Lat. - 5°		Lat. - 7°		Lat. - 7°		Lat. - 7°		Lat. - 5°	

Greenwich No. 4615a.		Greenwich No. 4619a.		Greenwich No. 4619a.		Greenwich No. 4630a.		Greenwich No. 4630a.	
1897. September 2.		1897. September 9.		1897. September 10.		1897. September 20.		1897. September 23.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5045·582	5426·474	5117·071	5426·474	5134·697	5426·474	5117·071	5426·474	5134·697	5460·572
5087·239	5482·078	5134·697	5460·572	5136·270	5460·572	5134·697	5482·078	5138·518	5482·078
5117·071	5671·071	5136·270	5482·078	5138·518	5671·071	5138·518	5671·071	5147·652	5671·071
5134·697	5672·047	5138·518	5671·072	5147·652	5672·047	5147·652	5727·873	5150·363	5672·047
5138·518	5727·873	5147·652	5672·047	5150·363	5727·873	5150·363	5731·437	5152·361	5727·873
5147·652	5731·437	5150·363	5737·288	5156·823	5737·288	5156·823	5737·288	5156·823	5731·437
Lat. - 5·4°		Lat. - 10·1°		Lat. - 9·6°		Lat. - 8·5°		Lat. - 8·1°	
Greenwich No. 4631a.		Greenwich No. 4630a.		Greenwich No. 4635a.		Greenwich No. 4656.		Greenwich No. 4663a.	
1897. September 23.		1897. September 25.		1897. October 7.		1897. December 2.		1897. December 9.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D
5117·071	5426·474	5134·697	5426·474	5134·697	5426·474	5045·582	5460·572	5045·582	5460·572
5138·518	5460·572	5136·270	5460·572	5136·270	5671·071	5134·697	5671·071	5134·697	5671·071
5147·652	5671·071	5138·518	5671·071	5138·518	5672·047	5138·518	5672·047	5143·901	5672·047
5150·363	5672·047	5147·652	5672·047	5147·652	5727·873	5143·901	5727·873	5147·652	5727·873
5156·823	5727·873	5150·363	5727·873	5152·361	5731·437	5150·363	5731·437	5150·363	5731·437
5160·419	5731·437	5156·823	5731·437	5156·823	5737·288	5156·823	5737·288	5156·823	5737·288
						5136·270	5219·875	5062·285	5426·474
						5111·802	5426·474	5111·802	5471·414
								5160·419	5490·367
									5743·645
Lat. + 13·0°		Lat. - 7·7°		Lat. + 9·4°		Lat. + 5·6°		Lat. + 10·0°	
Greenwich No. 4665.		Greenwich No. 4665.		Greenwich No. 4663a.		Greenwich No. 4665.			
1897. December 9.		1897. December 9.		1897. December 11.		1897. December 15.		1897. December 15-31.	
F—b	b—D	F—b	b—D	F—b	b—D	F—b	b—D	No record of widened lines, as spots were too small or weather unfavourable.	
5045·582	5460·572	5045·582	5460·572	5045·582	5460·572	5134·697	5426·474		
5134·697	5671·071	5134·697	5671·071	5134·697	5671·071	5138·518	5460·572		
5143·901	5672·047	5143·901	5672·047	5147·652	5672·047	5147·652	5671·071		
5147·652	5727·873	5147·652	5727·873	5148·851	5727·873	5150·363	5672·047		
5150·363	5731·437	5150·363	5731·437	5150·363	5731·437	5152·361	5727·873		
5156·823	5737·288	5156·823	5737·288	5152·361	5737·288	5163·200	5731·437		
5062·285	5426·474	5062·285	5426·474	5136·270	5426·474				
5111·802	5471·414	5111·802	5471·414	5138·518	5471·414				
5160·419	5490·369	5160·419	5490·369	5143·901	5703·797				
	5743·645		5743·645	5156·823					
				5163·200					
Lat. + 14·9°		Lat. + 9·5°		Lat. + 9·3°		Lat. + 9·1°			

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